

Example 2; SEQ ID NO 137; 324pp; English.

The invention comprises an antibody that specifically binds a regeneration IV (Reg IV) protein. The invention specifically comprises the amino acid and coding sequences of single chain antibody fragments (scFv's) that bind Reg IV protein. The antibody of the invention is useful for treating, preventing and ameliorating inflammatory bowel disorders (e.g. ulcerative colitis or Crohn's disease), diabetes (e.g. non-insulin dependent diabetes or insulin dependent diabetes), and cancer of the gastrointestinal tract. The antibody of the invention is also useful for detecting the expression of a Reg IV protein. The present DNA sequence represents a PCR primer that was used to amplify a Reg IV-specific scfv coding sequence.

Sequence 23 BP; 3 A; 3 C; 12 G; 5 T; 0 U; 0 Other;

Query Match 0.5%; Score 17.2; DB 1; Length 23;
Best Local Similarity 86.4%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 853 GAGGAGGAGCTGGTGAGGCTG 874
||||| ||||| ||||| |||||
Db 1 GAGGTGCAGCTGGTGAGTCTG 22

RESULT 732
ADJ93418

ID ADJ93418 standard; DNA; 23 BP.
AC ADJ93418;
XX XX
DT 06-MAY-2004 (first entry)
XX XX
DE Human BGS-42 protein-related PCR primer SeqID69.
XX XX

tetis-specific tubulin tyrosine-ligase-like polypeptide;
BGS-42 polypeptide; cytosolic; respiratory-Gen; gastrointestinal-Gen;
neuroprotective; endocrine-Gen; antiinflammatory; anabolic; hypertensive;
osteopathic; nootropic; antiparkinsonian; antiarthritic; antiasthmatic;
anti-HIV; antibacterial; immunosuppressive; antiseborrheic;
dermatological; tyrosine ligase modulator; gene therapy; tubulin ligase;
tubulin-carboxypeptidase; cellular proliferation; reproductive disorder;
testicular disorder; testicular cancer; pulmonary disorder; lung cancer;
gastrointestinal disorder; colon cancer; stomach cancer; neural disorder;
brain cancer; liver cancer; proliferative condition; testis; lung;
small intestine; brain; lymph tissue; infertility; Cushing's syndrome;
emphysema; pneumonia; Addison's disease; acromegaly; Alzheimer's disease;
Parkinson's disease; immunological disorder; arthritis; asthma; AIDS;
sepsis; acne; Sjogren's disease; scleroderma; human; PCR; primer; ss.
Homo sapiens.
WO2004005487-A2.
15-JAN-2004.
09-JUL-2003; 2003WO-US021605.
09-JUL-2002; 2002US-0394725P.
(BRIM) BRISTOL-MYERS SQUIBB CO.
Feder JN, Wu S, Nelson TC;
WPI; 2004-099381/10.
New tetis-specific tubulin tyrosine-ligase-like BGS-42 polypeptide,
useful for preventing, treating or ameliorating a medical condition, e.g.
aberrant cellular proliferation, reproductive disorders or testicular
disorders.

Example 34; SEQ ID NO 69; 343pp; English.

This invention relates to a novel tetis-specific tubulin tyrosine-ligase-like polypeptide, designated the BGS-42 polypeptide. The invention may be useful for the development of compounds with a cytosolic, respiratory-Gen, gastrointestinal-Gen, neuroprotective, endocrine-Gen, antiinflammatory, anabolic, hypertensive, osteopathic, nootropic, antiparkinsonian, antiarthritic, antiasthmatic, anti-HIV, antibacterial, immunosuppressive, antiseborrheic or dermatologic activity acting as tyrosine ligase modulators. In addition, the disclosed sequences may be useful for gene therapy. The BGS-42 polypeptide or polynucleotide can be used for diagnosing a pathological condition or a susceptibility to a pathological condition in a subject, and for preventing, treating or ameliorating a medical condition, such as a disorder related to aberrant tubulin ligase activity, a disorder related to aberrant tubulin-carboxypeptidase activity, aberrant cellular proliferation, reproductive disorders, testicular disorders, testicular cancer, pulmonary disorders, lung cancer, gastrointestinal disorders, colon cancer, stomach cancer, neural disorders, brain cancer, liver cancer, or proliferative condition of the testis, lung, small intestine, brain or lymph tissue. The BGS-42 polypeptide, polynucleotide, or their modulators are also useful for treating infertility, Cushing's syndrome, emphysema, pneumonia, Addison's disease, acromegaly, Alzheimer's disease, or Parkinson's disease. The BGS-42 polypeptide can be used as a preventive agent for immunological disorders including arthritis, asthma, AIDS, sepsis, acne, Sjogren's disease or scleroderma. The antibodies may be used to purify, detect and target the BGS-42 polypeptides. The present sequence is that of a PCR primer which was used in the exemplification of the invention.

Sequence 23 BP; 3 A; 3 C; 12 G; 5 T; 0 U; 0 Other;

Query Match 0.5%; Score 17.2; DB 1; Length 23;
Best Local Similarity 86.4%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 853 GAGGAGGAGCTGGTGAGGCTG 874
||||| ||||| ||||| |||||
Db 1 GAGGTGCAGCTGGTGAGTCTG 22

RESULT 733
ADL76556

ID ADL76556 standard; DNA; 23 BP.
AC ADL76556;
XX XX
DT 20-MAY-2004 (first entry)
XX XX
DE Human heavy variable primer, Hu VH3 5'.
XX XX

albumin fusion protein; cytosolic; antianaemic; antiarthritic;
antiasthmatic; anti-HIV; immunosuppressive; antiinflammatory;
antipsoriatic; antibacterial; osteopathic; dermatologic; antigout;
immunomodulator; antiarrhythmic; cardiac; nootropic; antilipemic;
nephrotropic; uropathic; neuroprotective; antiparkinsonian; tranquilizer;
antidiabetic; anabolic; hypertensive; vulnary; gene therapy; cancer;
reproductive system disorder; primer; ss.
Homo sapiens.
US2004010134-A1.
15-JAN-2004.
12-APR-2001; 2001US-00833245.
12-APR-2000; 2000US-0229358P.
25-APR-2000; 2000US-0199384P.
21-DEC-2000; 2000US-0256931P.
(ROSE/) ROSEN C A.
(HASE/) HASELTINE W A.
Rosen CA, Haseltine WA;
PI Rosen CA, Haseltine WA;

CC capturing biological particles such as cells, portions of cells, cell
 CC membranes, viruses, viral capsids, viral particles, bacterial cells,
 CC subcellular compartments, organelles and micelles, prokaryotic cells,
 CC eukaryotic cells, intracellular particles, nuclei, cell membranes, cell
 CC membrane fragments, nuclear membranes, nuclear membrane fragments, viral
 CC vectors or viral capsids with or without packaged nucleic acid, phage,
 CC phage vectors, phage capsids with or without encapsulated nucleotide
 CC acid, liposomes and other micellar agents. The biological particles are
 CC cells chosen from immune cells, neurons, cancer cells, bacterial cells
 CC and infected cells, subcellular compartment, organelles, viral particles
 CC or pathogens. The cells are dendritic cells, T cells, or B cells. The
 CC method is also useful for identifying molecules that interact with
 CC infectious agents, for profiling the surface of a biological particles,
 CC for identifying a modulator of an interaction among proteins in the
 CC biological particle, for identifying molecules that modulates the
 CC trafficking, activity or functional or structural property in the
 CC biological particle, and for mapping epitopes of molecules displayed on
 CC the surface of a biological particles. The method is also useful for
 CC sorting biological particles, for identifying a receptor on the surface
 CC of biological particle that transduces a signal from a polypeptide, and
 CC for identifying the molecule that interacts with an apically-localized
 CC molecule on a biological particle. The present sequence was used to
 CC illustrate the invention.

XX Sequence 23 BP; 3 A; 3 C; 12 G; 5 T; 0 U; 0 Other;

Query Match 0.5%; Score 17.2; DB 1; Length 23;
 Best Local Similarity 86.4%; Pred. No. 1.1e+03;
 Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 853 GAGGAGGAGCTGGTGAGGCTG 874

DB 1 GAGGTGAGCTGGTGAGTCTG 22

RESULT 738

AA59719

ID AA59719 standard; DNA; 24 BP.

XX

AC AA59719;

XX

DT 22-JUL-1999 (first entry)

XX

DE Modified DNA oligonucleotide of the invention.

XX

XX Oligodeoxyribonucleotide; intersubunit linkage;

KW phosphoramidate intersubunit; antisense activity; nuclease resistant;

KW in-vitro cell growth inhibition assay; infection;

KW smooth muscle cell proliferation disorder; inflammatory process;

KW genetic disorder; cancer; ss.

XX

OS Synthetic.

XX

PN WO9525814-A1.

XX

PD 28-SEP-1995.

XX

PF 20-MAR-1995; 95WO-US003575.

XX

PR 18-MAR-1994; 94US-00210505.

XX

PR 18-MAR-1994; 94US-00214599.

XX

PA (LYNX-) LYNX THERAPEUTICS INC.

XX

PI Gryaznov SM, Schultz RG, Chen J;

XX

DR WPI; 1995-344627/44.

XX

XX Oligo:nucleotide N3'-P5' phosphoramidate(s) - have improved resistance

PT toward phosphodiesterase digestion, and form stable duplexes with DNA and

PT RNA strands.

XX

PS Disclosure; Page 54; 101pp; English.

XX The specification describes oligodeoxyribonucleotides having contiguous
 CC nucleoside subunits joined by intersubunit linkages, where at least 3
 CC contiguous subunits are joined by phosphoramidate intersubunits. The
 CC oligodeoxyribonucleotides has a sequence of nucleoside subunits effective
 CC to form a duplex with a target nucleic acid molecule. The
 CC oligodeoxyribonucleotides are more resistant to nuclease digestion and
 CC have improved RNA and dsDNA hybridisation characteristics relative to
 CC oligonucleotides not containing N3'-P5' phosphoramidate linkages. They
 CC also have excellent antisense activity against complementary mRNA targets
 CC in in-vitro cell growth inhibition assays. They also exhibit low
 CC cytotoxicity. They may be used in diagnostic and therapeutic
 CC applications, e.g., in combatting infections agents such as bacteria,
 CC viruses, etc. or in treatment of smooth muscle cell proliferation
 CC disorders, inflammatory processes, certain genetic disorders, cancers,
 CC etc. The present sequence represents an oligonucleotide of the invention

XX Sequence 24 BP; 10 A; 0 C; 0 G; 14 T; 0 U; 0 Other;

Query Match 0.5%; Score 17.2; DB 1; Length 24;

Best Local Similarity 86.4%; Pred. No. 1.1e+03;

Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2823 TATATATACATATATATATATA 2844

DB 3 TATATATATTTTATATATATA 24

RESULT 739

AA59721

ID AA59721 standard; DNA; 24 BP.

XX

AC AA59721;

XX

DT 22-JUL-1999 (first entry)

XX

DE Modified oligonucleotide containing N3'-P5' phosphoramidates.

XX

KW Oligodeoxyribonucleotide; intersubunit linkage;

KW phosphoramidate intersubunit; antisense activity; nuclease resistant;

KW in-vitro cell growth inhibition assay; infection;

KW smooth muscle cell proliferation disorder; inflammatory process;

KW genetic disorder; cancer; ss.

XX

OS Synthetic.

XX

FH Key Location/Qualifiers

FT modified_base 1..10

FT /tag= a

FT /note= "each base is linked by N3'-P5' phosphoramidate

FT linkages"

FT modified_base 15..24

FT /tag= a

FT /note= "each base is linked by N3'-P5' phosphoramidate

FT linkages"

XX

PN WO9525814-A1.

XX

PD 28-SEP-1995.

XX

PF 20-MAR-1995; 95WO-US003575.

XX

PR 18-MAR-1994; 94US-00210505.

XX

PR 18-MAR-1994; 94US-00214599.

XX

PA (LYNX-) LYNX THERAPEUTICS INC.

XX

PI Gryaznov SM, Schultz RG, Chen J;

XX

DR WPI; 1995-344627/44.

XX

PT Oligo:nucleotide N3'-P5' phosphoramidate(s) - have improved resistance

PT toward phosphodiesterase digestion, and form stable duplexes with DNA and

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PT RNA strands.
PS Disclosure; Page 57; 101pp; English.
XX
CC The specification describes oligodeoxyribonucleotides having contiguous
CC nucleoside subunits joined by intersubunit linkages, where at least 3
CC contiguous subunits are joined by phosphoramidate intersubunits. The
CC oligodeoxyribonucleotides has a sequence of nucleoside subunits effective
CC to form a duplex with a target nucleic acid molecule. The
CC oligodeoxyribonucleotides are more resistant to nuclease digestion and
CC have improved RNA and dsDNA hybridisation characteristics, relative to
CC oligonucleotides not containing N3'-P5' phosphoramidate linkages. They
CC also have excellent antisense activity against complementary mRNA targets
CC in in-vitro cell growth inhibition assays. They also exhibit low
CC cytotoxicity. They may be used in diagnostic and therapeutic
CC applications, e.g., in combatting infectious agents such as bacteria,
CC viruses, etc. or in treatment of smooth muscle cell proliferation
CC disorders, inflammatory processes, certain genetic disorders, cancers,
CC etc. . The present sequence represents an oligonucleotide of the invention
XX
SQ Sequence 24 BP; 10 A; 0 C; 0 G; 14 T; 0 U; 0 Other;
Query Match 0.5%; Score 17.2; DB 1; Length 24;
Best Local Similarity 86.4%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 2823 TATATATACATATATATATATA 2844
DB 3 TATATATATTTTATATATATA 24
RESULT 740
AAQ15061
ID AAQ15061 standard; DNA; 24 BP.
XX
AC AAQ15061;
XX
DT 25-MAR-2003 (revised)
DT 19-FEB-1992 (first entry)
XX
DE T-cell receptor primer V-alpha 10.
XX
KW TCR; multiple sclerosis; MS; brain; amplification; primer; ss.
XX
OS Synthetic.
XX
PN WO9117268-A.
XX
PD 14-NOV-1991.
XX
PF 01-MAY-1990; 90US-00517245.
XX
PR 01-MAY-1990; 90US-00517245.
XX
PA (STRD ) UNIV. LELAND STANFORD JUNIOR.
XX
PI Steinman L, Oksenberg J, Bernard C;
XX
DR WPI; 1991-353787/48.
XX
PT Method for diagnosing T-cell associated disease - comprises identifying
PT rearranged variable region of appropriate T-cell also T-cell compsns. for
PT treating neo:proliferative conditions.
XX
PS Disclosure; Page 31; 53pp; English.
XX
CC TCR V-alpha and V-beta rearrangements were studied in 16 MS brains and in
CC 10 control brains. TCRValpha-Jalpha-Calpha and Vbeta-Dbeta- Jbeta-Cbeta
CC rearrangements were confirmed with Southern blotting and hybridisation of
CC the PCR product obtained by amplification with one of 18 Valpha or 21 of
CC Vbeta specific oligonucleotide primers. See AAQ15052-92 for Valpha,
CC Vbeta, Calpha and Cbeta primers. (Updated on 25-MAR-2003 to correct PA
CC field.)
XX
XX SQ Sequence 24 BP; 5 A; 9 C; 7 G; 3 T; 0 U; 0 Other;
Query Match 0.5%; Score 17.2; DB 1; Length 24;
Best Local Similarity 86.4%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 2240 ACCCTGCTGCTGTGTGCACAGCC 2261
DB 1 ACCCAGCTGCTGGAGCAGGCC 22
RESULT 741
AAQ97706/C
ID AAQ97706 standard; cDNA; 24 BP.
XX
AC AAQ97706;
XX
DT 06-FEB-1996 (first entry)
XX
DE Rat melanocortin receptor MC-5 amplification primer #3.
XX
KW Rat; melanocortin receptor; probe; dopamine; striatum; human; primer;
KW PCR; amplification; expression vector; cardiovascular; renal; motor;
KW neurological; psychiatric; gastro-intestinal; neuro-endocrinal;
KW arterial hypertension; disturbed intestinal function; secretory disorder;
KW dysfunction; adrenal gland; ss.
XX
OS Synthetic.
XX
PN FR2713645-A1.
XX
PD 16-JUN-1995.
XX
PF 08-DEC-1993; 93FR-00014732.
XX
PR 08-DEC-1993; 93FR-00014732.
XX
PA (INRM ) INST NAT SANTE & RECH MEDICALE.
XX
PI Griffon N, Sokoloff P, Mignon V, Diaz J, Facchinetti P;
PI Schwartz J;
XX
DR WPI; 1995-217531/29.
XX
PT New rat and human melanocortin receptor MC-5 - and related nucleic acid,
PT transformed cells etc. useful for screening cpds. and for diagnosis and
PT treatment of e.g. cardiovascular disease.
XX
XX Example 3; Page 17; 37pp; French.
XX
CC The primers and probes AAQ97705-8 were used to study the expression of
CC the rat melanocortin receptor gene in rat brains. Primers AAQ97705-6 were
CC used to PCR amplify a 225 bp fragment of the rat melanocortin receptor MC
CC -5 coding sequence (AAQ97701). Detection of this fragment was carried out
CC using the probes AAQ97707-8. Probes designed on the sequences of the rat
CC or human (AAQ97702) receptor genes can be used in diagnosis of
CC cardiovascular, renal, neurological, psychiatric, gastro-intestinal or
CC neuro-endocrinal diseases (e.g. arterial hypertension, disturbed
CC intestinal function, motor and secretory disorders, dysfunction of the
CC adrenal gland, etc.) associated with qualitative or quantitative
CC anomalies of the MC-5 receptor
XX
SQ Sequence 24 BP; 4 A; 9 C; 3 G; 8 T; 0 U; 0 Other;
Query Match 0.5%; Score 17.2; DB 1; Length 24;
Best Local Similarity 86.4%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 1351 ATGGAGATGATGAAGATGATCG 1372
DB 24 ATGGAGATGAGCAGCAGATCG 3

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RESULT 742
AAT33122/c
ID AAT33122 standard; DNA; 17 BP.
XX AC
XX AAT33122;
XX AC
XX 07-NOV-1996 (first entry)
XX DT
XX DE 3' primer to amplify 160 bp probe for Tie gene.
XX KW anti-Tie monoclonal antibody; extracellular domain; hybridoma;
XX KW Tyrosine kinase-Immunoglobulin like domain-EGF homology domain;
XX KW epidermal growth factor; leukaemia; diagnosis; separation;
XX KW haematopoietic stem cells; detection; primer; probe; PCR; amplify;
XX KW polymerase chain reaction; ss.
XX OS Synthetic.
XX PN JP08143598-A.
XX PD 04-JUN-1996.
XX PF 17-NOV-1994; 94JP-00308249.
XX PR 17-NOV-1994; 94JP-00308249.
XX PA (YAMA) YAMANOUCHI PHARM CO LTD.
XX DR WPI; 1996-318959/32.
XX PT Anti-Tie monoclonal antibody and hybridoma producing it - useful in
XX PT diagnosis of leukaemia and detection of haematopoietic stem cells.
XX PS Example 1; Page 5; 19pp; Japanese.
XX CC The invention concerns an anti-Tie (Tyrosine kinase-Immunoglobulin like
CC domain-EGF (epidermal growth factor) homology domain) monoclonal antibody
CC (MAB) which specifically recognises the Tie extracellular domain, and a
CC hybridoma producing it. The MAB can be used in the diagnosis of leukaemia
CC and also in separation and concentration of haematopoietic stem cells.
CC The MAB can also be used to detect and determine levels of (soluble) Tie.
CC AAT33121-22 are primers used to amplify a 160 bp probe based on a
CC tyrosine kinase domain, to detect the human Tie gene from a UT-7 cDNA
CC library. A 3933 bp cDNA clone, ptk-1, was identified, encoding a 1138
CC amino acid residue protein
XX SQ Sequence 17 BP; 5 A; 6 C; 4 G; 2 T; 0 U; 0 Other;
Query Match 0.4%; Score 17; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 8e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1765 GAGGCTTGTTCACCG 1781
Db 17 GAGGCTTGTTCACCG 1
RESULT 743
AAD17596
ID AAD17596 standard; DNA; 17 BP.
XX AC
XX AAD17596;
XX DT 10-DEC-2001 (first entry)
XX DE 5' variation generator oligonucleotide PCR primer #11.
XX KW Genomic DNA analysis; 5' variation generator; 3' fragment generator;
XX KW endangered animal identification; PCR primer; ss.
XX OS Unidentified.
XX PN

PN EP1130114-A1.
XX 05-SEP-2001.
XX 03-MAR-2000; 2000EP-00200757.
XX PR 03-MAR-2000; 2000EP-00200757.
XX PA (VHAE-) VAN HAERINGEN LAB BV.
XX PI Van Haringen H, Van Haringen WA;
XX DR WPI; 2001-572636/65.
XX PT Analyzing genomic DNA in a sample, useful for analyzing genes of
XX PT organisms (e.g. a species or individual) or identifying endangered
XX PT animals or plants, by using oligonucleotide primers comprising universal
XX PT variable fragments.
XX PS Example 1; Page 6; 23pp; English.
XX CC The patent discloses a method and associated kit for analysing genomic
XX CC DNA in a sample. The method comprises conducting a nucleic acid
XX CC amplification on the genomic DNA in the sample using both first and
XX CC second oligonucleotide primer to produce DNA fragments based on repeat
XX CC sequences on at least one end of the genomic DNA. The first primer is a
XX CC 5' variation generator including a repeat sequence and at least one non-
XX CC repeat nucleotide. The second oligonucleotide primer is a 3' fragment
XX CC generator starting within such a genetic distance that amplification of
XX CC the genomic DNA can be performed and preferably includes inosine. The
XX CC method is useful for the genetic analysis of an individual organism,
XX CC particularly of a species or individual. It is also useful for the rapid
XX CC and straight forward identification of endangered animals or plants. The
XX CC present DNA sequence is a 5' variation generator oligonucleotide PCR
XX CC primer
XX SQ Sequence 17 BP; 0 A; 1 C; 8 G; 8 T; 0 U; 0 Other;
Query Match 0.4%; Score 17; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 8e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2317 CTGTGTGTGTGTGTGTG 2333
Db 1 CTGTGTGTGTGTGTGTG 17
RESULT 744
AAD17598/c
ID AAD17598 standard; DNA; 17 BP.
XX AC AAD17598;
XX DT 10-DEC-2001 (first entry)
XX DE 5' variation generator oligonucleotide PCR primer #13.
XX KW Genomic DNA analysis; 5' variation generator; 3' fragment generator;
XX KW endangered animal identification; PCR primer; ss.
XX OS Unidentified.
XX PN EP1130114-A1.
XX PD 05-SEP-2001.
XX PF 03-MAR-2000; 2000EP-00200757.
XX PR 03-MAR-2000; 2000EP-00200757.
XX PA (VHAE-) VAN HAERINGEN LAB BV.
XX PI Van Haringen H, Van Haringen WA;

XX WPI; 2001-572636/65.
 XX Analyzing genomic DNA in a sample, useful for analyzing genes of
 PT organisms (e.g., a species or individual) or identifying endangered
 PT animals or plants, by using oligonucleotide primers comprising universal
 PT variable fragments.
 XX Example 1; Page 6; 23pp; English.
 PS The patent discloses a method and associated kit for analysing genomic
 XX DNA in a sample. The method comprises conducting a nucleic acid
 CC amplification on the genomic DNA in the sample using both first and
 CC second oligonucleotide primer to produce DNA fragments based on repeat
 CC sequences on at least one end of the genomic DNA. The first primer is a
 CC 5' variation generator including a repeat sequence and at least one non-
 CC repeat nucleotide. The second oligonucleotide primer is a 3' fragment
 CC generator starting within such a genetic distance that amplification of
 CC the genomic DNA can be performed and preferably includes inosine. The
 CC method is useful for the genetic analysis of an individual organism,
 CC particularly of a species or individual. It is also useful for the rapid
 CC and straight forward identification of endangered animals or plants. The
 CC present DNA sequence is a 5' variation generator oligonucleotide PCR
 CC primer.
 XX Sequence 17 BP; 8 A; 8 C; 1 G; 0 T; 0 U; 0 Other;
 SQ Query Match 0.4%; Score 17; DB 1; Length 17;
 Best Local Similarity 100.0%; Pred. No. 8e+02;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 2318 TGTGTGTGTGTGTGTGC 2334
 Db 17 TGTGTGTGTGTGTGTGC 1
 RESULT 745
 AAD34803
 ID AAD34803 standard; DNA; 17 BP.
 XX AAD34803;
 AC AAD34803;
 XX 16-JUL-2002 (first entry)
 DT Human FGFR3 allele detecting sense PCR primer.
 DE Human; chondrodysplasia; achondroplasia; transgenic mouse; therapy;
 KW fibroblast growth factor receptor 3; FGFR3; limb; midface hypoplasia;
 KW large skull; drug screening; drug development; transgenic; PCR; primer;
 KW ss.
 XX Homo sapiens.
 OS US6265632-B1.
 XX 24-JUL-2001.
 PD 26-AUG-1999; 99US-00383630.
 PF 27-AUG-1998; 98IL-00125958.
 PR (YEDA) YEDA RES & DEV CO LTD.
 XX (PROC-) PROCHON BIOTECH LTD.
 PA Yayon A, Segev O;
 PI WPI; 2001-463946/50.
 DR New transgenic mice having a genetically modified fibroblast growth
 XX factor receptor gene, useful as a model for human chondrodysplasia, e.g.
 PT achondroplasia characterized by shortening of the limbs, midface
 PT hypoplasia or large skull.
 XX

PS Example; Col 14; 49pp; English.
 XX The invention relates to an animal model for chondrodysplasia, more
 CC particularly, to a transgenic mouse model for achondroplasia. This
 CC transgenic mouse contains a fibroblast growth factor receptor 3 (FGFR3)
 CC gene including a G to A point mutation changing Gly to Arg in codon 380
 CC in its genome. The transgenic mouse is useful as a model for FGFR-
 CC associated chondrodysplasia, particularly FGFR3 achondroplasia, e.g.
 CC shortening of the limbs, midface hypoplasia and large skull. This model
 CC may be exploited to gain better understanding of the disease and as an
 CC experimental model with which experimental therapy to chondrodysplasias
 CC can be exercised. The transgenic mouse is particularly useful as a tool
 CC for screening, developing and evaluating drugs with a potential of
 CC relieving or abolishing chondrodysplasia syndromes and/or symptoms. The
 CC present sequence is a PCR primer used to detect human FGFR3 allele
 XX Sequence 17 BP; 3 A; 5 C; 6 G; 3 T; 0 U; 0 Other;
 SQ Query Match 0.4%; Score 17; DB 1; Length 17;
 Best Local Similarity 100.0%; Pred. No. 8e+02;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 455 CCTGCTGCTGTGAGAAC 471
 Db 1 CCTGCTGCTGTGAGAAC 17
 RESULT 746
 AAD55412
 ID AAD55412 standard; DNA; 17 BP.
 XX AAD55412;
 AC AAD55412;
 XX 07-AUG-2003 (first entry)
 DT Human FGFR-3 DNA specific forward PCR primer.
 DE Human; antisense; fibroblast growth factor receptor 3; prophylaxis;
 KW developmental disorder; hyperproliferative disorder; antisense therapy;
 KW FGFR-3; ACH; JTK4; CEK2; cancer; PCR; primer; ss.
 XX Homo sapiens.
 OS WO2003023004-A2.
 PN 20-MAR-2003.
 PD 06-SEP-2002; 2002WO-US028549.
 PF 10-SEP-2001; 2001US-00953047.
 PR (ISIS-) ISIS PHARM INC.
 XX Monia BP, Wyatt JR;
 PI WPI; 2003-313244/30.
 DR Novel compound targeted to a nucleic acid molecule encoding fibroblast
 XX growth factor receptor 3, useful for inhibiting the expression of the
 PT receptor and for treating an animal having cancer or developmental
 PT disorder.
 XX Example 13; Page 76; 120pp; English.
 PS The invention relates to antisense compounds targetted to a nucleic acid
 CC molecule encoding fibroblast growth factor (FGF) receptor 3 (also known
 CC as FGFR-3, ACH, JTK4 and CEK2) to inhibit its expression. Antisense
 CC compounds of the invention are useful for treating diseases or conditions
 CC associated with FGFR-3 such as developmental disorders or
 CC hyperproliferative disorders, especially cancer of colorectal, bladder,
 CC bone, lung, cervical, breast or skin. They are useful as research
 CC reagents, therapeutics, prophylaxis, kits and diagnostics, and as tools
 CC in differential and/or combinatorial analyses to elucidate expression

CC patterns of a portion of the genes expressed within cells and tissues.
 CC They are also useful in antisense therapy. The present sequence is human
 CC FGFR-3 DNA specific PCR primer. This primer is used in the
 CC exemplification of the invention

XX SQ Sequence 17 BP; 4 A; 5 C; 5 G; 3 T; 0 U; 0 Other;

Query Match 0.4%; Score 17; DB 1; Length 17;
 Best Local Similarity 100.0%; Pred. No. 8e+02;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1245 GGCCATCGGCATTGACA 1261
 |||||
 Db 1 GGCCATCGGCATTGACA 17

RESULT 747
 AAQ34125
 ID AAQ34125 standard; DNA; 18 BP.
 AC AAQ34125;
 XX 25-MAR-2003 (revised)
 DT 02-FEB-1993 (first entry)
 XX Sequence of a microsatellite from clone TGLA69.
 DE PCR; selection; primers; OPTIPRIM; breeding; cattle; parentage;
 KW genetic mapping; traits; amplification; ss.
 KW Bos taurus.
 OS WO9213102-A1.
 PN 06-AUG-1992.
 PD 15-JAN-1992; 92WO-US000340.
 XX 15-JAN-1991; 91US-00642342.
 PR (GENM-) GENMARK.
 PA Georges M, Massey JM;
 PI WPI; 1992-284684/34.
 DR Polymorphic bovine DNA markers - used in genetic identification, gene
 XX mapping, and selective breeding.
 PS Table 7; Page 381; 517pp; English.

CC The sequence is that of a bovine microsatellite sequence obt'd. by
 CC screening a library of bovine MbOI DNA fragments of between 250 and 500
 CC bp with an (AC)15 and a (TC)15 oligonucleotide probe. One out of 50
 CC clones cross-hybridised. Assuming independent distribution of
 CC microsatellites and MbOI sites, the frequency of (T6)n > 9 microsatellites
 CC in the bovine genome is estimated at >100, 000. The sequence information
 CC for ca. 230 such bovine microsatellites is summarised in the
 CC specification and indexed herein (see below). The sequences upstream and
 CC downstream of the microsatellite sequence were used to generate the
 CC required PCR primers for in vitro amplification of the corresp.
 CC microsatellite (using the program OPTIPRIM). The microsatellites may be
 CC used to identify individuals, for parentage testing, and in the genetic
 CC mapping of economic trait loci, or genes involved in the determination of
 CC economically important traits esp. in cattle, to allow selective
 CC breeding. See also AAQ33501-34437. (Updated on 25-MAR-2003 to correct PN
 CC field.)
 XX Sequence 18 BP; 0 A; 0 C; 9 G; 9 T; 0 U; 0 Other;
 SQ Query Match 0.4%; Score 17; DB 1; Length 18;
 Best Local Similarity 100.0%; Pred. No. 8.6e+02;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1245 GGCCATCGGCATTGACA 1261
 |||||
 Db 1 GGCCATCGGCATTGACA 17

QY 2335 GTGTGTGTGTGTGTGTG 2351
 |||||
 Db 2 GTGTGTGTGTGTGTGTG 18

RESULT 748
 AAQ33722
 ID AAQ33722 standard; DNA; 18 BP.
 XX AAQ33722;
 AC 25-MAR-2003 (revised)
 DT 02-FEB-1993 (first entry)
 XX Microsatellite sequence from clone TGLA141.
 DE PCR; selection; primers; OPTIPRIM; breeding; cattle; parentage;
 KW genetic mapping; traits; amplification; ss.
 KW Bos taurus.
 OS WO9213102-A1.
 PN 06-AUG-1992.
 PD 15-JAN-1992; 92WO-US000340.
 XX 15-JAN-1991; 91US-00642342.
 PR (GENM-) GENMARK.
 PA Georges M, Massey JM;
 PI WPI; 1992-284684/34.
 DR Polymorphic bovine DNA markers - used in genetic identification, gene
 XX mapping, and selective breeding.
 PS Table 7; Page 219; 517pp; English.

CC The sequence is that of a bovine microsatellite sequence obt'd. by
 CC screening a library of bovine MbOI DNA fragments of between 250 and 500
 CC bp with an (AC)15 and a (TC)15 oligonucleotide probe. One out of 50
 CC clones cross-hybridised. Assuming independent distribution of
 CC microsatellites and MbOI sites, the frequency of (T6)n > 9 microsatellites
 CC in the bovine genome is estimated at >100, 000. The sequence information
 CC for ca. 230 such bovine microsatellites is summarised in the
 CC specification and indexed herein (see below). The sequences upstream and
 CC downstream of the microsatellite sequence were used to generate the
 CC required PCR primers for in vitro amplification of the corresp.
 CC microsatellite (using the program OPTIPRIM). The microsatellites may be
 CC used to identify individuals, for parentage testing, and in the genetic
 CC mapping of economic trait loci, or genes involved in the determination of
 CC economically important traits esp. in cattle, to allow selective
 CC breeding. See also AAQ33501-34437. (Updated on 25-MAR-2003 to correct PN
 CC field.)
 XX Sequence 18 BP; 0 A; 0 C; 9 G; 9 T; 0 U; 0 Other;
 SQ Query Match 0.4%; Score 17; DB 1; Length 18;
 Best Local Similarity 100.0%; Pred. No. 8.6e+02;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2335 GTGTGTGTGTGTGTGTG 2351
 |||||
 Db 1 GTGTGTGTGTGTGTGTG 17

RESULT 749
 AAQ33950
 ID AAQ33950 standard; DNA; 18 BP.
 XX


```

AC AAQ33950;
XX 25-MAR-2003 (revised)
DT 02-FEB-1993 (first entry)
XX Microsatellite sequence from clone TGLA346.
DE PCR; selection; primers; OPTIPRIM; breeding; cattle; parentage;
XX genetic mapping; traits; amplification; ss.
KW Bos taurus.
XX WO9213102-A1.
XX 06-AUG-1992.
XX 15-JAN-1992; 92WO-US000340.
XX 15-JAN-1991; 91US-00642342.
XX (GENM-) GENMARK.
XX Georges M, Massey JM;
PI WPI; 1992-284684/34.
XX Polymorphic bovine DNA markers - used in genetic identification, gene
XX mapping, and selective breeding.
XX Table 7; Page 310; 517pp; English.
XX The sequence is that of a bovine microsatellite sequence obt'd. by
XX screening a library of bovine MboI DNA fragments of between 250 and 500
XX bp with an (AC)15 and a (TC)15 oligonucleotide probe. One out of 50
XX clones cross-hybridised. Assuming independent distribution of
XX microsatellites and MboI sites, the frequency of (TG)n >9 microsatellites
XX in the bovine genome is estimated at >100, 000. The sequence information
XX for ca. 230 such bovine microsatellites is summarised in the
XX specification and indexed herein (see below). The sequences upstream and
XX downstream of the microsatellite sequence were used to generate the
XX required PCR primers for in vitro amplification of the corresp.
XX microsatellite (using the program OPTIPRIM). The microsatellites may be
XX used to identify individuals, for parentage testing, and in the genetic
XX mapping of economic trait loci, or genes involved in the determination of
XX economically important traits esp. in cattle, to allow selective
XX breeding. See also AAQ33501-34437. (Updated on 25-MAR-2003 to correct PN
XX field.)
XX SQ Sequence 18 BP; 0 A; 0 C; 9 G; 9 T; 0 U; 0 Other;

Query Match 0.4%; Score 17; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 8.6e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2335 GTGTGTGTGTGTGTGTG 2351
DB 2 GTGTGTGTGTGTGTG 18

RESULT 750
AAQ33997
ID AAQ33997 standard; DNA; 18 BP.
XX AAQ33997;
XX 25-MAR-2003 (revised)
DT 02-FEB-1993 (first entry)
XX Microsatellite sequence from clone TGLA4.
XX PCR; selection; primers; OPTIPRIM; breeding; cattle; parentage;
XX genetic mapping; traits; amplification; ss.
XX

OS Bos taurus.
XX WO9213102-A1.
XX 06-AUG-1992.
XX 15-JAN-1992; 92WO-US000340.
XX 15-JAN-1991; 91US-00642342.
XX (GENM-) GENMARK.
XX Georges M, Massey JM;
PI WPI; 1992-284684/34.
XX Polymorphic bovine DNA markers - used in genetic identification, gene
XX mapping, and selective breeding.
XX Table 7; Page 329; 517pp; English.
XX The sequence is that of a bovine microsatellite sequence obt'd. by
XX screening a library of bovine MboI DNA fragments of between 250 and 500
XX bp with an (AC)15 and a (TC)15 oligonucleotide probe. One out of 50
XX clones cross-hybridised. Assuming independent distribution of
XX microsatellites and MboI sites, the frequency of (TG)n >9 microsatellites
XX in the bovine genome is estimated at >100, 000. The sequence information
XX for ca. 230 such bovine microsatellites is summarised in the
XX specification and indexed herein (see below). The sequences upstream and
XX downstream of the microsatellite sequence were used to generate the
XX required PCR primers for in vitro amplification of the corresp.
XX microsatellite (using the program OPTIPRIM). The microsatellites may be
XX used to identify individuals, for parentage testing, and in the genetic
XX mapping of economic trait loci, or genes involved in the determination of
XX economically important traits esp. in cattle, to allow selective
XX breeding. See also AAQ33501-34437. (Updated on 25-MAR-2003 to correct PN
XX field.)
XX SQ Sequence 18 BP; 0 A; 0 C; 9 G; 9 T; 0 U; 0 Other;

Query Match 0.4%; Score 17; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 8.6e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2335 GTGTGTGTGTGTGTGTG 2351
DB 1 GTGTGTGTGTGTGTG 17

RESULT 751
AAQ46589
ID AAQ46589 standard; DNA; 18 BP.
XX AAQ46589;
XX 25-MAR-2003 (revised)
DT 10-MAR-2003 (revised)
DT 23-DEC-1993 (first entry)
XX Simple sequence repeat (GT)9.
XX Microsatellite; simple sequence repeat; SSR; polymorphism; variation;
XX genetic marker; human genome; mapping; ligation reaction; ss.
XX Synthetic.
XX Key Location/Qualifiers
XX repeat_region 1..18
XX /tag= a
XX /note= "SSR"
XX repeat_unit 1..2
XX /tag= b
XX /rpt_type= TANDEM

```


CC This antisense oligonucleotide is nuclease resistant and can be used in
 CC the treatment of animals, including humans, having a bacterial infection.
 CC The treatment comprises administration of such nuclease resistant
 CC oligonucleotides, targeted to a nucleic acid or protein of the bacterium,
 CC and formulated with a carrier. A compound comprising this nuclease
 CC resistant oligonucleotide can be covalently linked to an antibiotic. The
 CC method is used to treat infections by a wide variety of Gram-positive and
 CC Gram-negative, or acid-fast, bacteria, in human and veterinary medicine.
 CC The methods are particularly used in immuno-compromised individuals (e.g.
 CC patients with acquired immunodeficiency syndrome or those receiving
 CC chemotherapy or radiation therapy), optionally in combination with, or
 CC fused to, antiviral or other antimicrobial oligonucleotides. Apart from
 CC therapeutic use, the oligonucleotides can be used to control bacteria in
 CC laboratory cultures, foods, beverages and industrial processes. The
 CC oligonucleotides are specific for bacteria, without affecting metabolism
 CC in mammalian cells. They may also activate RNase H and have a general,
 CC non-specific immune-stimulating effect. The oligonucleotides can be
 CC administered orally, intranasally, rectally, topically or by injection,
 CC optionally coupled to an agent (e.g. carbohydrate or polyamine) that
 CC enhances cellular uptake
 XX
 XX Sequence 18 BP; 9 A; 9 C; 0 G; 0 T; 0 U; 0 Other;

Query Match 0.4%; Score 17; DB 1; Length 18;
 Best Local Similarity 100.0%; Pred. No. 8.6e+02;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2335 GTGTGTGTGTGTGTGTG 2351

Db 18 GTGTGTGTGTGTGTGTG 2

RESULT 754

AA77462/C
 ID AAX77462 standard; DNA; 18 BP.

XX AAX77462;

DT 05-AUG-1999 (first entry)

DE US912147 primer 6.

XX Primer; quantitation; genetic instability; tumour cell; detection;
 KW neoplastic transformation; carcinogenesis; ss.

OS Synthetic.

XX US912147-A.

PN 15-JUN-1999.

XX 22-OCT-1996; 96US-00734973.

XX 22-OCT-1996; 96US-00734973.

XX (HEAL-) HEALTH RES INC.

XX Anderson G, Stoler D, Basik M;

XX WPI; 1999-357197/30.

XX Quantitating genetic instability.

XX Claim 4; Col 17-18; 27pp; English.

XX This invention describes a novel method for quantitating genetic
 CC instability independent of microsatellite alterations by treating a
 CC comparison pair comprising genomic DNA from tumour cells and genomic DNA
 CC from normal cells. The method involves the cells from the same individual
 CC with oligonucleotide primers selected from (i) a nucleotide sequence
 CC (CG)XRG, where R is a purine selected from adenine and guanine and x = 3-
 CC 7, (ii) a nucleotide sequence (CG)XRY, where R is as in (i) and Y is a
 CC pyrimidine selected from cytosine, thymine, and uracil and x = 3-7, (iii)

CC a nucleotide sequence (CG)XRR, where R is as in (i) and x = 3-7, (iv) a
 CC nucleotide sequence (CG)XY, where Y is a pyrimidine selected from
 CC cytosine, thymine, and uracil and x = 3-7, (v) a nucleotide sequence
 CC (CA)XRG, where R is a purine selected from adenine and guanine and x = 6-
 CC 16, (vi) a nucleotide sequence (CA)XY, where R is a purine selected from
 CC adenine and guanine and Y is a pyrimidine selected from cytosine,
 CC thymine, and uracil, and x = 6-16, (vii) a nucleotide sequence (CA)XRR,
 CC where R is a purine selected from adenine and guanine and x = 6-16,
 CC (viii) a nucleotide sequence (CA)XY, where Y is a pyrimidine selected
 CC from cytosine, thymine, and uracil and x = 6-16, and (ix) a combination
 CC of the primers. The method is useful for detecting genomic instability
 CC which are commonly associated with the various stages of neoplastic
 CC transformation and carcinogenesis. The method is rapid and simple
 XX
 XX Sequence 18 BP; 8 A; 9 C; 1 G; 0 T; 0 U; 0 Other;

Query Match 0.4%; Score 17; DB 1; Length 18;

Best Local Similarity 100.0%; Pred. No. 8.6e+02;

Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2317 CTGTGTGTGTGTGTGTG 2333

Db 17 CTGTGTGTGTGTGTG 1

RESULT 755

AA77487/C

ID AAX77487 standard; DNA; 18 BP.

XX AAX77487;

DT 05-AUG-1999 (first entry)

DE US912147 primer 31.

XX Primer; quantitation; genetic instability; tumour cell; detection;
 KW neoplastic transformation; carcinogenesis; ss.

OS Synthetic.

XX US912147-A.

PN 15-JUN-1999.

XX 22-OCT-1996; 96US-00734973.

XX 22-OCT-1996; 96US-00734973.

XX (HEAL-) HEALTH RES INC.

XX Anderson G, Stoler D, Basik M;

XX WPI; 1999-357197/30.

XX Quantitating genetic instability.

XX Claim 4; Col 29-30; 27pp; English.

XX This invention describes a novel method for quantitating genetic
 CC instability independent of microsatellite alterations by treating a
 CC comparison pair comprising genomic DNA from tumour cells and genomic DNA
 CC from normal cells. The method involves the cells from the same individual
 CC with oligonucleotide primers selected from (i) a nucleotide sequence
 CC (CG)XRG, where R is a purine selected from adenine and guanine and x = 3-
 CC 7, (ii) a nucleotide sequence (CG)XRY, where R is as in (i) and Y is a
 CC pyrimidine selected from cytosine, thymine, and uracil and x = 3-7, (iii)
 CC a nucleotide sequence (CG)XRR, where R is as in (i) and x = 3-7, (iv) a
 CC nucleotide sequence (CG)XY, where Y is a pyrimidine selected from
 CC cytosine, thymine, and uracil and x = 3-7, (v) a nucleotide sequence
 CC (CA)XRG, where R is a purine selected from adenine and guanine and x = 6-
 CC 16, (vi) a nucleotide sequence (CA)XY, where R is a purine selected from
 CC adenine and guanine and Y is a pyrimidine selected from cytosine,
 CC thymine, and uracil, and x = 6-16, (vii) a nucleotide sequence (CA)XRR,

CC where R is a purine selected from adenine and guanine and x = 6-16,
 CC (viii) a nucleotide sequence (CA)XY, where Y is a pyrimidine selected
 CC from cytosine, thymine, and uracil and x = 6-16, and (ix) a combination
 CC of the primers. The method is useful for detecting genomic instability
 CC which are commonly associated with the various stages of neoplastic
 CC transformation and carcinogenesis. The method is rapid and simple
 XX
 XX
 SQ Sequence 18 BP; 8 A; 9 C; 0 G; 1 T; 0 U; 0 Other;
 Query Match 0.4%; Score 17; DB 1; Length 18;
 Best Local Similarity 100.0%; Pred. No. 8.6e+02;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 2335 GTGTGTGTGTGTGTGTG 2351
 DB 17 GTGTGTGTGTGTGTG 1
 RESULT 756
 AAX77486/c
 ID AAX77486 standard; DNA; 18 BP.
 XX
 AC AAX77486;
 XX
 DT 05-AUG-1999 (first entry)
 XX
 XX US5912147 primer 30.
 XX
 DE
 XX
 KW Primer; quantitation; genetic instability; tumour cell; detection;
 KW neoplastic transformation; carcinogenesis; ss.
 XX
 OS Synthetic.
 XX
 XX US5912147-A.
 XX
 PD 15-JUN-1999.
 XX
 XX
 PF 22-OCT-1996; 96US-00734973.
 XX
 PR 22-OCT-1996; 96US-00734973.
 XX
 PA (HEAL-) HEALTH RES INC.
 XX
 PI Anderson G, Stoler D, Basik M;
 XX
 XX WPI; 1999-357197/30.
 XX
 PT Quantitating genetic instability.
 XX
 PS Claim 4; Col 29-30; 27pp; English.
 XX
 CC This invention describes a novel method for quantitating genetic
 CC instability independent of microsatellite alterations by treating a
 CC comparison pair comprising genomic DNA from tumour cells and genomic DNA
 CC from normal cells. The method involves the cells from the same individual
 CC with oligonucleotide primers selected from (i) a nucleotide sequence
 CC (CG)XRG, where R is a purine selected from adenine and guanine and x = 3-
 CC 7, (ii) a nucleotide sequence (CG)XRY, where R is as in (i) and Y is a
 CC pyrimidine selected from cytosine, thymine, and uracil and x = 3-7, (iii)
 CC a nucleotide sequence (CG)XRR, where R is as in (i) and x = 3-7, (iv) a
 CC nucleotide sequence (CG)XY, where Y is a pyrimidine selected from
 CC cytosine, thymine, and uracil and x = 3-7, (v) a nucleotide sequence
 CC (CA)XRG, where R is a purine selected from adenine and guanine and x = 6-
 CC 16, (vi) a nucleotide sequence (CA)XRY, where R is a purine selected from
 CC adenine and guanine and Y is a pyrimidine selected from cytosine,
 CC thymine, and uracil, and x = 6-16, (vii) a nucleotide sequence (CA)XRR,
 CC where R is a purine selected from adenine and guanine and x = 6-16,
 CC (viii) a nucleotide sequence (CA)XY, where Y is a pyrimidine selected
 CC from cytosine, thymine, and uracil and x = 6-16, and (ix) a combination
 CC of the primers. The method is useful for detecting genomic instability
 CC which are commonly associated with the various stages of neoplastic
 CC transformation and carcinogenesis. The method is rapid and simple
 XX
 XX

SQ Sequence 18 BP; 8 A; 10 C; 0 G; 0 T; 0 U; 0 Other;
 Query Match 0.4%; Score 17; DB 1; Length 18;
 Best Local Similarity 100.0%; Pred. No. 8.6e+02;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 2335 GTGTGTGTGTGTGTGTG 2351
 DB 17 GTGTGTGTGTGTGTG 1
 RESULT 757
 AAX77458/c
 ID AAX77458 standard; DNA; 18 BP.
 XX
 AC AAX77458;
 XX
 DT 05-AUG-1999 (first entry)
 XX
 DE US5912147 primer 2.
 XX
 KW Primer; quantitation; genetic instability; tumour cell; detection;
 KW neoplastic transformation; carcinogenesis; ss.
 XX
 OS Synthetic.
 XX
 XX US5912147-A.
 XX
 PD 15-JUN-1999.
 XX
 XX
 PF 22-OCT-1996; 96US-00734973.
 XX
 PR 22-OCT-1996; 96US-00734973.
 XX
 PA (HEAL-) HEALTH RES INC.
 XX
 PI Anderson G, Stoler D, Basik M;
 XX
 XX WPI; 1999-357197/30.
 XX
 PT Quantitating genetic instability.
 XX
 PS Claim 4; Col 17-18; 27pp; English.
 XX
 CC This invention describes a novel method for quantitating genetic
 CC instability independent of microsatellite alterations by treating a
 CC comparison pair comprising genomic DNA from tumour cells and genomic DNA
 CC from normal cells. The method involves the cells from the same individual
 CC with oligonucleotide primers selected from (i) a nucleotide sequence
 CC (CG)XRG, where R is a purine selected from adenine and guanine and x = 3-
 CC 7, (ii) a nucleotide sequence (CG)XRY, where R is as in (i) and Y is a
 CC pyrimidine selected from cytosine, thymine, and uracil and x = 3-7, (iii)
 CC a nucleotide sequence (CG)XRR, where R is as in (i) and x = 3-7, (iv) a
 CC nucleotide sequence (CG)XY, where Y is a pyrimidine selected from
 CC cytosine, thymine, and uracil and x = 3-7, (v) a nucleotide sequence
 CC (CA)XRG, where R is a purine selected from adenine and guanine and x = 6-
 CC 16, (vi) a nucleotide sequence (CA)XRY, where R is a purine selected from
 CC adenine and guanine and Y is a pyrimidine selected from cytosine,
 CC thymine, and uracil, and x = 6-16, (vii) a nucleotide sequence (CA)XRR,
 CC where R is a purine selected from adenine and guanine and x = 6-16,
 CC (viii) a nucleotide sequence (CA)XY, where Y is a pyrimidine selected
 CC from cytosine, thymine, and uracil and x = 6-16, and (ix) a combination
 CC of the primers. The method is useful for detecting genomic instability
 CC which are commonly associated with the various stages of neoplastic
 CC transformation and carcinogenesis. The method is rapid and simple
 XX
 XX
 SQ Sequence 18 BP; 8 A; 8 C; 2 G; 0 T; 0 U; 0 Other;
 Query Match 0.4%; Score 17; DB 1; Length 18;
 Best Local Similarity 100.0%; Pred. No. 8.6e+02;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 2317 CTGTGTGTGTGTGTGTG 2333

Db 17 CTGTGTGTGTGTGTG 1

RESULT 758
AAAX77464/c
ID AAX77464 standard; DNA; 18 BP.
XX
AC AAX77464;
XX
DT 05-AUG-1999 (first entry)
XX
DE US5912147 primer 8.
XX
KW Primer; quantitation; genetic instability; tumour cell; detection;
XX neoplastic transformation; carcinogenesis; DNA/RNA hybrid; ss.
KW
OS Synthetic.
XX
FH Key Location/Qualifiers
FT misc_RNA 18
FT /*tag= a
FT /note= "uracil"
XX
XX US5912147-A.
PN
XX
PD 15-JUN-1999.
XX
PF 22-OCT-1996; 96US-00734973.
XX
PR 22-OCT-1996; 96US-00734973.
XX
PA (HEAL-) HEALTH RES INC.
XX
PI Anderson G, Stoler D, Basik M;
XX
PI WPI; 1999-357197/30.
XX
DR Quantitating genetic instability.
XX
PT
XX
PS Claim 4; Col 19-20; 27pp; English.
XX
CC This invention describes a novel method for quantitating genetic
CC instability independent of microsatellite alterations by treating a
CC comparison pair comprising genomic DNA from tumour cells and genomic DNA
CC from normal cells. The method involves the cells from the same individual
CC with oligonucleotide primers selected from (i) a nucleotide sequence
CC (CG)xRG, where R is a purine selected from adenine and guanine and x = 3-
CC 7, (ii) a nucleotide sequence (CG)xRY, where R is as in (i) and Y is a
CC pyrimidine selected from cytosine, thymine, and uracil and x = 3-7, (iii)
CC a nucleotide sequence (CG)xRR, where R is as in (i) and x = 3-7, (iv) a
CC nucleotide sequence (CG)xY, where Y is a pyrimidine selected from
CC cytosine, thymine, and uracil and x = 3-7, (v) a nucleotide sequence
CC (CA)xRG, where R is a purine selected from adenine and guanine and x = 6-
CC 16, (vi) a nucleotide sequence (CA)xRY, where R is a purine selected from
CC adenine and guanine and Y is a pyrimidine selected from cytosine,
CC thymine, and uracil, and x = 6-16, (vii) a nucleotide sequence (CA)xRR,
CC where R is a purine selected from adenine and guanine and x = 6-16,
CC (viii) a nucleotide sequence (CA)xY, where Y is a pyrimidine selected
CC from cytosine, thymine, and uracil and x = 6-16, and (ix) a combination
CC of the primers. The method is useful for detecting genomic instability
CC which are commonly associated with the various stages of neoplastic
CC transformation and carcinogenesis. The method is rapid and simple
XX
SQ Sequence 18 BP; 8 A; 8 C; 1 G; 0 T; 1 U; 0 Other;

Query Match 0.4%; Score 17; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 8.6e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2317 CTGTGTGTGTGTGTG 2333
Db 17 CTGTGTGTGTGTGTG 1

RESULT 759
AAAX77488/c
ID AAX77488 standard; DNA; 18 BP.
XX
AC AAX77488;
XX
DT 05-AUG-1999 (first entry)
XX
DE US5912147 primer 32.
XX
KW Primer; quantitation; genetic instability; tumour cell; detection;
XX neoplastic transformation; carcinogenesis; DNA/RNA hybrid; ss.
KW
OS Synthetic.
XX
FH Key Location/Qualifiers
FT misc_RNA 18
FT /*tag= a
FT /note= "uracil"
XX
XX US5912147-A.
PN
XX
PD 15-JUN-1999.
XX
PF 22-OCT-1996; 96US-00734973.
XX
PR 22-OCT-1996; 96US-00734973.
XX
PA (HEAL-) HEALTH RES INC.
XX
PI Anderson G, Stoler D, Basik M;
XX
PI WPI; 1999-357197/30.
XX
DR Quantitating genetic instability.
XX
PT
XX
PS Claim 4; Col 29-30; 27pp; English.
XX
CC This invention describes a novel method for quantitating genetic
CC instability independent of microsatellite alterations by treating a
CC comparison pair comprising genomic DNA from tumour cells and genomic DNA
CC from normal cells. The method involves the cells from the same individual
CC with oligonucleotide primers selected from (i) a nucleotide sequence
CC (CG)xRG, where R is a purine selected from adenine and guanine and x = 3-
CC 7, (ii) a nucleotide sequence (CG)xRY, where R is as in (i) and Y is a
CC pyrimidine selected from cytosine, thymine, and uracil and x = 3-7, (iii)
CC a nucleotide sequence (CG)xRR, where R is as in (i) and x = 3-7, (iv) a
CC nucleotide sequence (CG)xY, where Y is a pyrimidine selected from
CC cytosine, thymine, and uracil and x = 3-7, (v) a nucleotide sequence
CC (CA)xRG, where R is a purine selected from adenine and guanine and x = 6-
CC 16, (vi) a nucleotide sequence (CA)xRY, where R is a purine selected from
CC adenine and guanine and Y is a pyrimidine selected from cytosine,
CC thymine, and uracil, and x = 6-16, (vii) a nucleotide sequence (CA)xRR,
CC where R is a purine selected from adenine and guanine and x = 6-16,
CC (viii) a nucleotide sequence (CA)xY, where Y is a pyrimidine selected
CC from cytosine, thymine, and uracil and x = 6-16, and (ix) a combination
CC of the primers. The method is useful for detecting genomic instability
CC which are commonly associated with the various stages of neoplastic
CC transformation and carcinogenesis. The method is rapid and simple
XX
SQ Sequence 18 BP; 8 A; 9 C; 0 G; 0 T; 1 U; 0 Other;

Query Match 0.4%; Score 17; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 8.6e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2335 GTGTGTGTGTGTGTG 2351
Db 17 GTGTGTGTGTGTGTG 1

RESULT 760
AAAX77463/C
ID AAX77463 standard; DNA; 18 BP.
XX AC AAX77463;
XX DT 05-AUG-1999 (first entry)
XX DE US5912147 primer 7.
XX KW Primer; quantitation; genetic instability; tumour cell; detection;
XX KW neoplastic transformation; carcinogenesis; ss.
XX OS Synthetic.
XX PN US5912147-A.
XX PD 15-JUN-1999.
XX PF 22-OCT-1996; 96US-00734973.
XX PR 22-OCT-1996; 96US-00734973.
XX PA (HEAL-) HEALTH RES INC.
XX PI Anderson G, Stoler D, Basik M;
XX WPI; 1999-357197/30.
XX Quantitating genetic instability.
XX Claim 4; Col 19-20; 27pp; English.
XX This invention describes a novel method for quantitating genetic
XX instability independent of microsatellite alterations by treating a
XX comparison pair comprising genomic DNA from tumour cells and genomic DNA
XX from normal cells. The method involves the cells from the same individual
XX with oligonucleotide primers selected from (i) a nucleotide sequence
XX (CG)XRG, where R is a purine selected from adenine and guanine and x = 3-
XX 7, (ii) a nucleotide sequence (CG)XRY, where R is as in (i) and Y is a
XX pyrimidine selected from cytosine, thymine, and uracil and x = 3-7, (iii) a
XX nucleotide sequence (CG)XRR, where R is as in (i) and x = 3-7, (iv) a
XX nucleotide sequence (CG)XY, where Y is a pyrimidine selected from
XX cytosine, thymine, and uracil and x = 3-7, (v) a nucleotide sequence
XX (CA)XRG, where R is a purine selected from adenine and guanine and x = 6-
XX 16, (vi) a nucleotide sequence (CA)XRY, where R is a purine selected from
XX adenine and guanine and Y is a pyrimidine selected from cytosine,
XX thymine, and uracil, and x = 6-16, (vii) a nucleotide sequence (CA)XRR,
XX where R is a purine selected from adenine and guanine and x = 6-16,
XX (viii) a nucleotide sequence (CA)XY, where Y is a pyrimidine selected
XX from cytosine, thymine, and uracil and x = 6-16, and (ix) a combination
XX of the primers. The method is useful for detecting genomic instability
XX which are commonly associated with the various stages of neoplastic
XX transformation and carcinogenesis. The method is rapid and simple
XX
SQ Sequence 18 BP; 8 A; 8 C; 1 G; 1 T; 0 U; 0 Other;
Query Match 0.4%; Score 17; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 8.6e+02; Indels 0; Gaps 0;
Matches 17; Conservative 0; Mismatches 0;
QY 2317 CTGTGTGTGTGTGTGTG 2333
DB 17 CTGTGTGTGTGTGTGTG 1
RESULT 761
AAAX76437
ID AAX76437 standard; DNA; 18 BP.
XX AC AAX76437;
XX DT 05-AUG-1999 (first entry)

XX Sequencing reagent array oligonucleotide primer #28.
XX Sequencing reagent array; primer; capture moiety; hybridisation;
XX detection; mutation; diagnosis; infectious disease; genetic disease; ss.
XX Synthetic.
XX WO9927137-A1.
XX 03-JUN-1999.
XX 20-NOV-1998; 98WO-US024966.
XX 21-NOV-1997; 97US-00976427.
XX (ORCH-) ORCHID BIOCOMPUTER INC.
XX Head SR, Golet P, Karn J, Boyce-Jacino M;
XX WPI; 1999-357855/30.
XX Reagent for nucleic acid sequencing by primer extension, used to detect
XX mutations and to diagnose infectious or genetic diseases.
XX Example 7; Page 27; 47pp; English.
XX The present invention describes a sequencing reagent (I) comprising: (a)
XX a capture group (CG) that can form a stable complex with a region of a
XX template nucleic acid (II); (b) a spacer region (SR); and (c) a sequence-
XX specific hybridisation region (SSHR) of 4-8 bases able to hybridise to a
XX complementary sequence on (II). Also described are: (1) an array comprising
XX an orderly arrangement of many (I), immobilized on a solid support; and
XX (2) a method of sequencing (II) using a combinatorial array of (I). Arrays
XX of (I) are used for sequencing nucleic acids by a primer extension
XX method, e.g. to scan for mutations (particularly single-nucleotide
XX polymorphisms) and for diagnosis of infectious and genetic diseases.
XX Arrays of (I) allow sequencing of templates without any prior knowledge
XX of the wild-type or expected sequence. By separating the capture and
XX specific hybridisation functions, it becomes possible to use smaller
XX primers, simplifying array analysis, reducing costs and allowing
XX thousands of hybridisation reactions to be done simultaneously.
XX Particularly, 4 times fewer primers are required, compared with standard
XX methods, i.e. since primer extension increases the effective length of
XX the primer by 1 base, an array of n-mers will be as effective as an array
XX of n+1-mers in usual methods. The method may be applied to single- or
XX double-stranded DNA. AAX76410 to AAX76440 represent sequencing reagent
XX array oligonucleotide primers used in an example from the present
XX invention
SQ Sequence 18 BP; 0 A; 0 C; 9 G; 9 T; 0 U; 0 Other;
Query Match 0.4%; Score 17; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 8.6e+02; Indels 0; Gaps 0;
Matches 17; Conservative 0; Mismatches 0;
QY 2335 GTGTGTGTGTGTGTG 2351
DB 2 GTGTGTGTGTGTGTG 18
RESULT 762
AAAS13765
ID AAAS13765 standard; DNA; 18 BP.
XX AC AAAS13765;
XX DT 08-MAY-2002 (first entry)
XX DE Simple sequence repeat, SSR, #37.
XX KW Simple sequence repeat; plant; ds; SSR; ryegrass; fescue; tandem repeat;
XX KW cereal profiling; grass profiling; seed batch purity testing.

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XX OS Lolium multiflorum.
XX PN NZ509193-A.
XX PD 25-MAY-2001.
XX PF 03-JAN-2001; 2001NZ-00509193.
XX PR 24-DEC-1999; 99AU-00004906.
XX PR 04-MAY-2000; 2000AU-00007310.
XX PA (SAUS-) STATE SOUTH AUSTRALIA SOUTH AUSTRALIAN R.
XX PA (UYSC-) UNIV SOUTHERN CROSS.
XX PA (VICT-) STATE VICTORIA DEPT NATURAL RES & ENVIRO.
XX PA (UYAD-) UNIV ADELAIDE.
XX PA (ITMA-) INT MAIZE & WHEAT IMPROVEMENT CENT.
XX PI Forster JW, Jones ES;
XX WPI; 2001-512563/56.
XX DR
XX PT New simple sequence repeats having 2 or more tandemly repeated nucleotide
XX PT core elements isolated from ryegrass and fescue, useful for selecting of
XX PT genes in grass or cereal breeding or profiling grass or cereal species
XX PT varieties.
XX PS Example 1; Fig 6; 72pp; English.
XX CC The invention relates to a substantially purified or isolated nucleic
XX CC acid (I) from ryegrass or fescue species including a simple sequence
XX CC repeat (SSR), having 2 or more tandemly repeated nucleotide core elements
XX CC 2-6 nucleotides in length. Also included are a nucleic acid primer
XX CC suitable for amplifying an SSR, identifying (M1) an SSR by preparing a
XX CC library of ryegrass or fescue genomic DNA enriched for SSRs and
XX CC identifying clones in the library containing SSRs, a library of ryegrass
XX CC or fescue genomic DNA enriched for SSRs prepared by the M1, selecting for
XX CC a gene in grass or cereal breeding by identifying an SSR that is closely
XX CC associated with the gene such that the SSR and the gene are
XX CC preferentially co-inherited, and selecting for the SSR in the breeding, a
XX CC method for DNA profiling grass or cereal species varieties by assessing
XX CC variation between SSR varieties and testing the purity of grass or cereal
XX CC seed batches by assessing variation within seed batch of an SSR. The SSRs
XX CC may be used in the selection of genes in grass or cereal breeding, for
XX CC profiling grass or cereal species varieties, for testing the purity of
XX CC grass or cereal seed batches, and for DNA profiling to establish the
XX CC distinct identity, uniformity and/or stability of a cultivar. The present
XX CC sequence is a ryegrass or fescue SSR
XX SQ Sequence 18 BP; 0 A; 0 C; 9 G; 9 T; 0 U; 0 Other;
Query Match 0.4%; Score 17; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 8.6e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2335 GTGTGTGTGTGTGTGTG 2351
Db 1 GTGTGTGTGTGTGTGTG 17
RESULT 763
AAS13732/C
ID AAS13732 standard; DNA; 18 BP.
XX AC AAS13732;
XX AC AAS13732;
XX DT 08-MAY-2002 (first entry)
XX DE Simple sequence repeat, SSR, #29.
XX KW Simple sequence repeat; plant; ds; SSR; ryegrass; fescue; tandem repeat;
XX KW cereal profiling; grass profiling; seed batch purity testing.
XX OS Poae.

OS OS Poae.
XX PN NZ509193-A.
XX PD 25-MAY-2001.
XX PF 03-JAN-2001; 2001NZ-00509193.
XX PR 24-DEC-1999; 99AU-00004906.
XX PR 04-MAY-2000; 2000AU-00007310.
XX PA (SAUS-) STATE SOUTH AUSTRALIA SOUTH AUSTRALIAN R.
XX PA (UYSC-) UNIV SOUTHERN CROSS.
XX PA (VICT-) STATE VICTORIA DEPT NATURAL RES & ENVIRO.
XX PA (UYAD-) UNIV ADELAIDE.
XX PA (ITMA-) INT MAIZE & WHEAT IMPROVEMENT CENT.
XX PI Forster JW, Jones ES;
XX WPI; 2001-512563/56.
XX DR
XX PT New simple sequence repeats having 2 or more tandemly repeated nucleotide
XX PT core elements isolated from ryegrass and fescue, useful for selecting of
XX PT genes in grass or cereal breeding or profiling grass or cereal species
XX PT varieties.
XX PS Claim 6; Page 51; 72pp; English.
XX CC The invention relates to a substantially purified or isolated nucleic
XX CC acid (I) from ryegrass or fescue species including a simple sequence
XX CC repeat (SSR), having 2 or more tandemly repeated nucleotide core elements
XX CC 2-6 nucleotides in length. Also included are a nucleic acid primer
XX CC suitable for amplifying an SSR, identifying (M1) an SSR by preparing a
XX CC library of ryegrass or fescue genomic DNA enriched for SSRs and
XX CC identifying clones in the library containing SSRs, a library of ryegrass
XX CC or fescue genomic DNA enriched for SSRs prepared by the M1, selecting for
XX CC a gene in grass or cereal breeding by identifying an SSR that is closely
XX CC associated with the gene such that the SSR and the gene are
XX CC preferentially co-inherited, and selecting for the SSR in the breeding, a
XX CC method for DNA profiling grass or cereal species varieties by assessing
XX CC variation between SSR varieties and testing the purity of grass or cereal
XX CC seed batches by assessing variation within seed batch of an SSR. The SSRs
XX CC may be used in the selection of genes in grass or cereal breeding, for
XX CC profiling grass or cereal species varieties, for testing the purity of
XX CC grass or cereal seed batches, and for DNA profiling to establish the
XX CC distinct identity, uniformity and/or stability of a cultivar. The present
XX CC sequence is a ryegrass or fescue SSR
XX SQ Sequence 18 BP; 9 A; 9 C; 9 G; 0 T; 0 U; 0 Other;
Query Match 0.4%; Score 17; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 8.6e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2335 GTGTGTGTGTGTGTGTG 2351
Db 17 GTGTGTGTGTGTGTGTG 1
RESULT 764
AAS13723/C
ID AAS13723 standard; DNA; 18 BP.
XX AC AAS13723;
XX AC AAS13723;
XX DT 08-MAY-2002 (first entry)
XX DE Simple sequence repeat, SSR, #20.
XX KW Simple sequence repeat; plant; ds; SSR; ryegrass; fescue; tandem repeat;
XX KW cereal profiling; grass profiling; seed batch purity testing.
XX OS Poae.

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XX NZ509193-A.
XX
XX
XX PD
XX
XX PF
XX 25-MAY-2001.
XX
XX 03-JAN-2001; 2001NZ-00509193.
XX
XX 24-DEC-1999; 99AU-00004906.
XX
XX 04-MAY-2000; 2000AU-00007310.
XX
XX (SAUS-) STATE SOUTH AUSTRALIA SOUTH AUSTRALIAN R.
XX (UYSC-) UNIV SOUTHERN CROSS.
XX (VICT-) STATE VICTORIA DEPT NATURAL RES & ENVIRO.
XX (UYAD-) UNIV ADELAIDE.
XX (ITWA-) INT MAIZE & WHEAT IMPROVEMENT CENT.
XX
XX Forster JW, Jones ES;
XX
XX WPI; 2001-512563/56.
XX
XX New simple sequence repeats having 2 or more tandemly repeated nucleotide
XX core elements isolated from ryegrass and fescue, useful for selecting of
XX genes in grass or cereal breeding or profiling grass or cereal species
XX varieties.
XX
XX Claim 6; Page 51; 72pp; English.
XX
XX The invention relates to a substantially purified or isolated nucleic
XX acid (I) from ryegrass or fescue species including a simple sequence
XX repeat (SSR), having 2 or more tandemly repeated nucleotide core elements
XX 2-6 nucleotides in length. Also included are a nucleic acid primer
XX suitable for amplifying an SSR, identifying (M1) an SSR by preparing a
XX library of ryegrass or fescue genomic DNA enriched for SSRs and
XX identifying clones in the library containing SSRs, a library of ryegrass
XX or fescue genomic DNA enriched for SSRs prepared by the M1, selecting for
XX a gene in grass or cereal breeding by identifying an SSR that is closely
XX associated with the gene such that the SSR and the gene are
XX preferentially co-inherited, and selecting for the SSR in the breeding, a
XX method for DNA profiling grass or cereal species varieties by assessing
XX variation between SSR varieties and testing the purity of grass or cereal
XX seed batches by assessing variation within seed batch of an SSR. The SSRs
XX may be used in the selection of genes in grass or cereal breeding, for
XX profiling grass or cereal species varieties, for testing the purity of
XX grass or cereal seed batches, and for DNA profiling to establish the
XX distinct identity, uniformity and/or stability of a cultivar. The present
XX sequence is a ryegrass or fescue SSR
XX
XX Sequence 18 BP; 9 A; 9 C; 0 G; 0 T; 0 U; 0 Other;
XX
XX Query Match 0.4%; Score 17; DB 1; Length 18;
XX Best Local Similarity 100.0%; Pred. No. 8.6e+02;
XX Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 2335 GTGTGTGTGTGTGTGTG 2351
XX |||||
XX Db 18 GTGTGTGTGTGTGTGTG 2
XX
XX RESULT 765
XX AAS13729
XX ID AAS13729 standard; DNA; 18 BP.
XX
XX AC AAS13729;
XX
XX DT 08-MAY-2002 (first entry)
XX
XX DE Simple sequence repeat, SSR, #26.
XX
XX Simple sequence repeat; plant; ds; SSR; ryegrass; fescue; tandem repeat;
XX cereal profiling; grass profiling; seed batch purity testing.
XX
XX Poae.
XX
XX

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PN NZ509193-A.
XX
XX
XX PD
XX
XX PF
XX 25-MAY-2001.
XX
XX 03-JAN-2001; 2001NZ-00509193.
XX
XX 24-DEC-1999; 99AU-00004906.
XX
XX 04-MAY-2000; 2000AU-00007310.
XX
XX (SAUS-) STATE SOUTH AUSTRALIA SOUTH AUSTRALIAN R.
XX (UYSC-) UNIV SOUTHERN CROSS.
XX (VICT-) STATE VICTORIA DEPT NATURAL RES & ENVIRO.
XX (UYAD-) UNIV ADELAIDE.
XX (ITWA-) INT MAIZE & WHEAT IMPROVEMENT CENT.
XX
XX Forster JW, Jones ES;
XX
XX WPI; 2001-512563/56.
XX
XX New simple sequence repeats having 2 or more tandemly repeated nucleotide
XX core elements isolated from ryegrass and fescue, useful for selecting of
XX genes in grass or cereal breeding or profiling grass or cereal species
XX varieties.
XX
XX Claim 6; Page 51; 72pp; English.
XX
XX The invention relates to a substantially purified or isolated nucleic
XX acid (I) from ryegrass or fescue species including a simple sequence
XX repeat (SSR), having 2 or more tandemly repeated nucleotide core elements
XX 2-6 nucleotides in length. Also included are a nucleic acid primer
XX suitable for amplifying an SSR, identifying (M1) an SSR by preparing a
XX library of ryegrass or fescue genomic DNA enriched for SSRs and
XX identifying clones in the library containing SSRs, a library of ryegrass
XX or fescue genomic DNA enriched for SSRs prepared by the M1, selecting for
XX a gene in grass or cereal breeding by identifying an SSR that is closely
XX associated with the gene such that the SSR and the gene are
XX preferentially co-inherited, and selecting for the SSR in the breeding, a
XX method for DNA profiling grass or cereal species varieties by assessing
XX variation between SSR varieties and testing the purity of grass or cereal
XX seed batches by assessing variation within seed batch of an SSR. The SSRs
XX may be used in the selection of genes in grass or cereal breeding, for
XX profiling grass or cereal species varieties, for testing the purity of
XX grass or cereal seed batches, and for DNA profiling to establish the
XX distinct identity, uniformity and/or stability of a cultivar. The present
XX sequence is a ryegrass or fescue SSR
XX
XX Sequence 18 BP; 0 A; 0 C; 9 G; 9 T; 0 U; 0 Other;
XX
XX Query Match 0.4%; Score 17; DB 1; Length 18;
XX Best Local Similarity 100.0%; Pred. No. 8.6e+02;
XX Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 2335 GTGTGTGTGTGTGTGTG 2351
XX |||||
XX Db 1 GTGTGTGTGTGTGTGTG 17
XX
XX RESULT 766
XX AAH46012
XX ID AAH46012 standard; DNA; 18 BP.
XX
XX AC AAH46012;
XX
XX DT 12-SEP-2001 (first entry)
XX
XX DE Synthetic oligonucleotide 12.
XX
XX Synthetic oligonucleotide; dinucleotide repeat; cytostatic; apoptosis;
XX cell cycle arrest; cell proliferation; caspase; cytokine; interleukin;
XX tumour necrosis factor; TNF; cancer; carcinoma; sarcoma; leukemia;
XX lymphoma; ss.
XX
XX Synthetic.
XX

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XX WPI; 2001-290930/30.
 XX Novel genotyping oligonucleotide, useful for detecting the presence,
 PT absence or identity of single polynucleotide polymorphism in a nucleic
 PT acid sample.
 XX
 XX Claim 1; Page 51; 83pp; English.
 XX
 CC Sequences AAH37205 - AAH40944 represent PCR primers, single nucleotide
 CC primer extension (SNPE) primers, and the sequences of regions flanking
 CC sites of single nucleotide polymorphisms SNPs. The present invention
 CC includes kits for determining the presence or absence of a SNP, using the
 CC oligonucleotides of the invention. The PCR primers are used to amplify a
 CC SNP flanking sequence, the SNPE primer is used as a genotyping primer.
 CC The oligonucleotides are useful for genotyping a nucleic acid sample by
 CC performing a single-nucleotide primer extension reaction. The
 CC oligonucleotides are useful for determining the presence, absence or
 CC identity of a SNP and for genotyping nucleic acid samples, for e.g. to
 CC assess by association analysis the genotype of an individual or group of
 CC individuals, having a pathological phenotypic trait suspected of being
 CC caused by one or more SNPs. Phenotypic traits include diseases e.g.
 CC agammaglobulinaemia, diabetes insipidus, Lesch-Nyhan syndrome, muscular
 CC dystrophy, familial hypercholesterolaemia, polycystic kidney disease,
 CC osteogenesis imperfecta and acute intermittent porphyria. Phenotypic
 CC traits also include symptoms of or susceptibility to multifactorial
 CC disease of which a component is or may be genetic such as autoimmune
 CC diseases, including, rheumatoid arthritis, multiple sclerosis,
 CC inflammation, cancer, nervous system diseases and infection by pathogenic
 CC microorganism. The method is also useful in forensic investigations and
 CC paternity analysis. The present sequence represents a PCR primer specific
 CC for a human SNP containing DNA sequence
 XX
 XX Sequence 18 BP; 0 A; 2 C; 9 G; 7 T; 0 U; 0 Other;
 SQ
 Query Match 0.4%; Score 17; DB 1; Length 18;
 Best Local Similarity 100.0%; Pred. No. 8.6e+02;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 2319 GTGTGTGTGTGTGTGG 2335
 DB 1 GTGTGTGTGTGTGTGG 17
 RESULT 769
 AA164454/C
 ID AA164454 standard; DNA; 18 BP.
 AC
 AC AA164454;
 XX
 DT 23-NOV-2001 (first entry)
 XX
 DE SSR motif #14.
 XX
 KW Simple Sequence Repeat; SSR; clover; microsatellite; genome mapping;
 KW trait mapping; marker-assisted selection; gene selection; legume;
 KW DNA profiling; breeding; ds.
 XX
 OS Unidentified.
 XX
 PN NZ509194-A.
 XX
 XX 25-MAY-2001.
 XX
 XX 03-JAN-2001; 2001NZ-00509194.
 XX
 XX 24-DEC-1999; 99AU-00004907.
 PR 28-MAR-2000; 2000AU-00006520.
 XX
 XX (AGRI-) AGRIC VICTORIA SERVICES PTY LTD.
 PA
 XX Koelliker R, Forster JW;
 PI

DR WPI; 2001-431058/46.
 XX
 PT Novel simple sequence repeats in clover species useful for selection of
 PT genes in legume breeding, for profiling legume species varieties and for
 PT testing the purity of legume seed batches.
 XX
 PS Claim 6; Page 35; 52pp; English.
 XX
 CC The present invention relates to Simple Sequence Repeats (SSRs) from
 CC clover species. SSRs, also called microsatellites, are based on a 1-7
 CC nucleotide core element which is tandemly repeated. The SSR array is
 CC embedded in complex flanking DNA. SSRs are ideal markers for genome
 CC mapping, trait mapping and marker-assisted selection. The SSRs may be
 CC used in methods for selecting genes in clover/ legume breeding. The SSRs
 CC are also useful for DNA profiling of clover varieties and for testing the
 CC purity of legume seed batches. The present sequence is a SSR motif, which
 CC was used in the present invention
 XX
 SQ Sequence 18 BP; 9 A; 9 C; 0 G; 0 T; 0 U; 0 Other;
 Query Match 0.4%; Score 17; DB 1; Length 18;
 Best Local Similarity 100.0%; Pred. No. 8.6e+02;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 2335 GTGTGTGTGTGTGTGG 2351
 DB 17 GTGTGTGTGTGTGTGG 1
 RESULT 770
 AD081096/C
 ID AD081096 standard; DNA; 18 BP.
 AC
 AC AD081096;
 XX
 DT 29-JUL-2004 (first entry)
 XX
 DE Sheep prion protein microsatellite locus primer #67.
 XX
 KW gene typing; polymorphic microsatellite loci; PML;
 KW disease predisposition; microsatellite marker; prion disease;
 KW cystic fibrosis; malignant hyperthermia syndrome; metabolic disease;
 KW milk protein; hormone; transcription factor; pr7-blue-vector; sheep;
 KW microsatellite; PCR; primer; ss.
 XX
 OS Ovis aries.
 XX
 PN DE10236711-A1.
 XX
 PD 26-FEB-2004.
 XX
 PF 09-AUG-2002; 2002DE-01036711.
 XX
 PR 09-AUG-2002; 2002DE-01036711.
 XX
 XX (UYHO-) UNIV HOHENHEIM.
 PA
 XX Geldermann H, Preuss S, Han Y;
 PI
 XX WPI; 2004-215730/21.
 DR
 XX Typing genes that contain polymorphic microsatellite loci, useful for
 PT identifying predisposition to disease, by amplification and determining
 PT length of amplicons.
 XX
 PS Example 3; Page 30; 64pp; German.
 XX
 CC The invention describes a method of typing (M1) a gene (I) that has one
 CC or more polymorphic microsatellite loci (PML). The method comprises: PCR
 CC amplification of at least one DNA region of (I) that includes PML, using
 CC as template a DNA sample containing at least one segment of (I); and
 CC determining the length of the resulting amplicon(s). Also described are:
 CC a method of determining (M2) microsatellite markers (MM) for

CC predisposition to a disease, associated with a gene that includes one or
CC more PMU; and prediagnosis (M3) of diseases associated with gene that
CC include PMU. The method is used to identify microsatellite markers, in a
CC disease-related gene, that are associated with a predisposition to
CC diseases and for prediagnosis of such diseases, especially prion diseases
CC but also cystic fibrosis, malignant hyperthermia syndrome in pigs and
CC metabolic diseases; also to type genes that encode milk proteins,
CC hormones or transcription factors. The method is simpler, quicker and
CC particularly less expensive than known methods based on sequencing. This
CC sequence represents a primer used to genotype a region of the sheep prion
CC protein (PrP) comprising a polymorphic microsatellite locus.

XX
SQ Sequence 18 BP; 9 A; 9 C; 0 G; 0 T; 0 U; 0 Other;

Query Match 0.4%; Score 17; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 8.6e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2335 GTGTGTGTGTGTGTGTG 2351
DB 17 GTGTGTGTGTGTGTGTG 1

RESULT 771
ADI80140/C
ID ADI80140 standard; DNA; 20 BP.
XX
AC ADI80140;
XX
DT 22-APR-2004 (first entry)
DE Mouse transforming growth factor-beta 2 antisense oligo, SEQ ID No 141.
DE antisense; transforming growth factor; TGF; beta 2; TGF-beta 2;
KW cytosolic; neurotropic; neuroprotective; immunosuppressive;
KW hyperproliferative disorder; cancer; neurodegenerative; hyperactivation;
KW immune; ss; mouse; murine.
XX
OS Mus musculus.
XX
PN US2004006030-A1.
XX
PD 08-JAN-2004.
XX
PF 02-JUL-2002; 2002US-00189267.
XX
PR 02-JUL-2002; 2002US-00189267.
XX
PA (ISIS-) ISIS PHARM INC.
XX
PI Monia BP, Freier SM, Dobie KW;
XX
DR WPI; 2004-081742/08.
XX
PT New compounds, particularly antisense oligonucleotides targeted to a
PT nucleic acid encoding TGF-beta 2, useful for treating cancer, a
PT neurodegenerative disorder, or a disease involving hyperactivation of
PT immune response.

XX Example 16; SEQ ID NO 141; 135pp; English.
XX
XX The invention relates to a novel antisense compound of 8-80 nucleobases
XX in length targeted to, and which specifically hybridizes with, a nucleic
XX acid molecule encoding transforming growth factor (TGF)-beta 2, and
XX inhibits the expression of TGF-beta 2. The invention further relates to:
XX a compound 8-80 nucleobases in length that specifically hybridizes with
XX at least an 8-nucleobase portion of an active site on a nucleic acid
XX molecule encoding TGF-beta 2; a composition comprising the compound and a
XX carrier or diluent; inhibiting the expression of TGF-beta 2 in cells or
XX tissues by contacting the cells or tissues with the compound so that
XX expression of TGF-beta 2 is inhibited; treating an animal having a
XX disease or condition associated with TGF-beta 2 by administering to the
XX animal a therapeutic or prophylactic amount of the compound so that

CC expression of TGF-beta 2 is inhibited; and screening an antisense
CC compound. The antisense compound has cytostatic, neurotropic,
CC neuroprotective, and immunosuppressive activities. The compound,
CC composition and methods are useful for treating a disease or condition
CC associated with TGF-beta 2, such as a hyperproliferative disorder e.g.
CC cancer, a neurodegenerative disorder, or a disease or condition involving
CC hyperactivation of an immune response. This polynucleotide sequence
CC represents an antisense oligonucleotide of the invention.

XX
SQ Sequence 20 BP; 6 A; 6 C; 6 G; 2 T; 0 U; 0 Other;

Query Match 0.4%; Score 17; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 9.7e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3377 TTGCTGTGTGTCCAGG 3393
DB 18 TTGCTGTGTGTCCAGG 2

RESULT 772
ADI80261
ID ADI80261 standard; DNA; 20 BP.
XX
AC ADI80261;
XX
DT 22-APR-2004 (first entry)
DE Mouse transforming growth factor-beta 2 target DNA region, SEQ ID No 262.
DE antisense; transforming growth factor; TGF; beta 2; TGF-beta 2;
KW cytosolic; neurotropic; neuroprotective; immunosuppressive;
KW hyperproliferative disorder; cancer; neurodegenerative; hyperactivation;
KW immune; ss; mouse; murine.
XX
OS Mus musculus.
XX
PN US2004006030-A1.
XX
PD 08-JAN-2004.
XX
PF 02-JUL-2002; 2002US-00189267.
XX
PR 02-JUL-2002; 2002US-00189267.
XX
PA (ISIS-) ISIS PHARM INC.
XX
PI Monia BP, Freier SM, Dobie KW;
XX
DR WPI; 2004-081742/08.
XX
PT New compounds, particularly antisense oligonucleotides targeted to a
PT nucleic acid encoding TGF-beta 2, useful for treating cancer, a
PT neurodegenerative disorder, or a disease involving hyperactivation of
PT immune response.
XX
PS Example 16; SEQ ID NO 262; 135pp; English.
XX
XX The invention relates to a novel antisense compound of 8-80 nucleobases
XX in length targeted to, and which specifically hybridizes with, a nucleic
XX acid molecule encoding transforming growth factor (TGF)-beta 2, and
XX inhibits the expression of TGF-beta 2. The invention further relates to:
XX a compound 8-80 nucleobases in length that specifically hybridizes with
XX at least an 8-nucleobase portion of an active site on a nucleic acid
XX molecule encoding TGF-beta 2; a composition comprising the compound and a
XX carrier or diluent; inhibiting the expression of TGF-beta 2 in cells or
XX tissues by contacting the cells or tissues with the compound so that
XX expression of TGF-beta 2 is inhibited; treating an animal having a
XX disease or condition associated with TGF-beta 2 by administering to the
XX animal a therapeutic or prophylactic amount of the compound so that
XX expression of TGF-beta 2 is inhibited; and screening an antisense
XX compound. The antisense compound has cytostatic, neurotropic,
XX neuroprotective, and immunosuppressive activities. The compound,

CC composition and methods are useful for treating a disease or condition
 CC associated with TGF-beta 2, such as a hyperproliferative disorder e.g.
 CC cancer, a neurodegenerative disorder, or a disease or condition involving
 CC hyperactivation of an immune response. This polynucleotide sequence
 CC represents a preferred target DNA region of TGF-beta 2 of the invention.
 XX
 SQ Sequence 20 BP; 2 A; 6 C; 6 G; 6 T; 0 U; 0 Other;
 Query Match 0.4%; Score 17; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 9.7e+02;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 3377 TTGCTGTGTGTCACG 3393
 Db 3 TTGCTGTGTGTCACG 19
 RESULT 773
 ADM15004/C
 ID ADM15004 standard; DNA; 20 BP.
 AC ADM15004;
 XX
 DT 01-JUL-2004 (first entry)
 DE Human mPGES-1 chimeric antisense oligonucleotide SEQ ID NO:1191.
 XX
 KW chimeric; antisense oligonucleotide; phosphorothioate; human;
 KW microsomal prostaglandin E2 synthase; mPGES-1; mPGES-1 inhibitor;
 KW microsomal prostaglandin E2 synthase inhibitor; cytosolic; antidiabetic;
 KW immunomodulator; cardiant; neuroprotective; antiinflammatory;
 KW neuroprotective; nootropic; antiarthritic; vasotropic; ophthalmological;
 KW immunomodulatory; cardiovascular; gene therapy; inflammation;
 KW Alzheimer's disease; arthritis; diabetes; cancer; ischaemia;
 KW reperfusion injury; ophthalmic disorder; immunological disorder;
 KW cardiovascular disorder; neurological disorder; ss.
 XX
 OS Homo sapiens.
 OS Synthetic.
 XX
 PH Key Location/Qualifiers
 FT modified_base 1..20
 FT /*tag= b
 FT /mod_base= OTHER
 FT /note= "phosphorothioate linkages and all cytidine
 FT residues are 5-methylcytidines"
 FT modified_base 1..5
 FT /*tag= a
 FT /mod_base= OTHER
 FT /note= "2'-O-methoxyethyls"
 FT modified_base 16..20
 FT /*tag= c
 FT /mod_base= OTHER
 FT /note= "2'-O-methoxyethyls"
 XX
 PN WO2004028458-A2.
 XX
 PD 08-APR-2004.
 XX
 PF 25-SEP-2003; 2003WO-US030374.
 XX
 PR 25-SEP-2002; 2002US-0413549P.
 XX
 PA (PHAA) PHARMACIA CORP.
 XX
 PI Gierse JK;
 XX
 DR WPI; 2004-305094/28.
 XX
 XX New antisense compound, having a sequence targeted to a nucleic acid
 PT encoding mPGES-1, useful for preparing a composition for treating e.g.,
 PT inflammation, Alzheimer's disease, arthritis, diabetes, cancer or
 PT ischaemia.

XX Claim 4; SEQ ID NO 1191; 132pp; English.
 PS
 CC The present sequence represents a chimeric antisense oligonucleotide
 CC targeted to human microsomal prostaglandin E2 synthase (mPGES-1). The
 CC human mPGES-1 gene is located on chromosome 9, more specifically to
 CC 9q34.3. The present invention also describes: (1) antisense compounds,
 CC having a sequence comprising 8-30 bp targeted to a nucleic acid encoding
 CC mPGES-1, which specifically hybridise with the nucleic acid mPGES-1 and
 CC inhibits its expression; (2) a method of inhibiting the expression of
 CC mPGES-1 in cells or tissues; and (3) a method of treating an animal
 CC having a disease or condition associated with mPGES-1. mPGES-1 chimeric
 CC antisense oligonucleotides and antisense compounds have cytostatic,
 CC antidiabetic, immunomodulator, cardiant, neuroprotective,
 CC ophthalmological, immunomodulatory and cardiovascular activities, and can
 CC be used as mPGES-1 inhibitors and in gene therapy. The antisense compound
 CC can be used for preparing a composition for treating a disease or
 CC condition associated with mPGES-1 e.g., inflammation, Alzheimer's
 CC disease, arthritis, diabetes, cancer, ischaemia or reperfusion injury, or
 CC ophthalmic, immunological, cardiovascular or neurological disorder.
 XX
 SQ Sequence 20 BP; 11 A; 9 C; 0 G; 0 T; 0 U; 0 Other;
 Query Match 0.4%; Score 17; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 9.7e+02;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 2335 GTGTGTGTGTGTGTGTG 2351
 Db 20 GTGTGTGTGTGTGTGTG 4
 RESULT 774
 ADO40832/C
 ID ADO40832 standard; DNA; 20 BP.
 XX
 AC ADO40832;
 XX
 DT 12-AUG-2004 (first entry)
 XX
 DE Human CRLR gene 5' flanking region PCR primer #2.
 XX
 KW human; ss; primer; calcitonin receptor-like receptor; CRLR; hypertension;
 KW glucocorticoid administration; tumour; vasodilation; angiogenesis;
 KW gene therapy; PCR.
 XX
 OS Homo sapiens.
 XX
 PN WO2004044581-A2.
 XX
 PD 27-MAY-2004.
 XX
 PF 13-NOV-2003; 2003WO-GB004930.
 XX
 PR 13-NOV-2002; 2002GB-00026497.
 XX
 PA (ISIS-) ISIS INNOVATION LTD.
 XX
 PI Mackenzie I, Rees CMP, Nikitenko LL, Bicknell R, Smith DM,
 XX WPI; 2004-411760/38.
 XX
 XX Use of calcitonin receptor-like receptor (CRLR) genes for determining if
 PT a test compound can regulate expression of CRLR gene, for screening a
 PT test compound to counteract hypertension in glucocorticoid administration
 PT or for tumor therapy.
 XX
 PS Example 4; Page 24; 43pp; English.
 XX
 CC The invention relates to the use of the calcitonin receptor-like receptor
 CC (CRLR) gene for determining whether a test compound can regulate
 CC expression of CRLR gene, screening a test compound for ability to

CC microsatellites and MboI sites, the frequency of (76)n > 9 microsatellites
 CC in the bovine genome is estimated at >100, 000. The sequence information
 CC for ca. 230 such bovine microsatellites is summarised in the
 CC specification and indexed herein (see below). The sequences upstream and
 CC downstream of the microsatellite sequence were used to generate the
 CC required PCR primers for in vitro amplification of the corresp.
 CC microsatellite (using the program OPTIPRIM). The microsatellites may be
 CC used to identify individuals, for parentage testing, and in the genetic
 CC mapping of economic trait loci, or genes involved in the determination of
 CC economically important traits esp. in cattle, to allow selective
 CC breeding. See also AAQ33501-34437. (Updated on 25-MAR-2003 to correct PN
 CC field.)
 XX
 SQ Sequence 23 BP; 0 A; 0 C; 12 G; 11 T; 0 U; 0 Other;

Query Match 0.4%; Score 17; DB 1; Length 23;
 Best Local Similarity 100.0%; Pred. No. 1.1e+03;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2335 GTGTGTGTGTGTGTGTG 2351
 DB 1 GTGTGTGTGTGTGTGTG 17

RESULT 777
 AAQ75505/c
 ID AAQ75505 standard; DNA; 24 BP.
 XX
 AC AAQ75505;
 XX
 DT 25-MAR-2003 (revised)
 DT 28-JUN-1995 (first entry)
 DE Capture probe CAP267.
 XX
 KW Human papilloma virus; HPV; HPV16; HPV18; diagnosis; primer;
 KW capture probe; hybridization; self-sustained sequence replication; 3SR;
 KW E6 protein; E7 protein; cervical dysplasia; cervix cancer; ss.
 XX
 OS Synthetic.
 PN WO9426934-A2.
 XX
 PD 24-NOV-1994.
 XX
 PF 06-MAY-1994; 94WO-US005085.
 XX
 PR 06-MAY-1993; 93US-00058920.
 XX
 PA (BAXT) BAXTER DIAGNOSTICS INC.
 XX
 PI Brown JT;
 XX
 DR WPI; 1995-006821/01.
 XX
 PT Human papilloma virus detection assay - by amplification using self
 PT sustained sequence replication and hybridisation with a detector probe.
 XX
 PS Disclosure; Page 16; 79pp; English.

CC Self-sustained sequence replication is performed on HPV E6/E7 region mRNA
 CC using 2 primers, one of which contains a transcriptional promoter, pref.
 CC the phage T7 RNA-polymerase binding site (AAQ75512). Suitable primers are
 CC given in AAQ75472-500. Amplified sequences are hybridized to capture
 CC probes (AAQ75501-05), and hybridization is detected using detection
 CC probes (AAQ75506-09, AAQ86975). Expression of E6/E7 is diagnostic for
 CC cervical cancer or pre-malignancy states. (Updated on 25-MAR-2003 to
 CC correct PN field.)
 XX
 SQ Sequence 24 BP; 9 A; 5 C; 7 G; 3 T; 0 U; 0 Other;

Query Match 0.4%; Score 17; DB 1; Length 24;
 Best Local Similarity 100.0%; Pred. No. 1.2e+03;

Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OY 2988 TTTTCTGGCACCAGCAG 3004
 DB 21 TTTTCTGGCACCAGCAG 5
 RESULT 778
 AAQ44813/c
 ID AAQ44813 standard; DNA; 20 BP.
 XX
 AC AAQ44813;
 XX
 DT 25-MAR-2003 (revised)
 DT 28-SEP-1994 (first entry)
 DE Pur-specific RACE primer EX-990.
 XX
 KW Single-strand binding protein; PUR protein; cellular oncogene;
 KW eukaryotic origin of replication; gene amplification; cancer cell;
 KW retinoblastoma protein; helix-destabilising protein; inhibitor;
 KW hyperproliferation; c-myc; rapid amplification of cDNA ends; ss.
 XX
 OS Synthetic.
 PN WO9405689-A1.
 XX
 PD 17-MAR-1994.
 XX
 PF 27-AUG-1993; 93WO-US008102.
 XX
 PR 28-AUG-1992; 92US-00938189.
 PR 02-FEB-1993; 93US-00014943.
 XX
 PA (MOUN) MOUNT SINAI SCHOOL MEDICINE.
 XX
 PI Johnson EM, Bergemann AD;
 XX
 DR WPI; 1994-101114/12.
 XX
 PT Cloning and expression of PUR protein, involved in regulation of DNA
 PT replication - also oligo-nucleotide(s) and antibodies for use in the
 PT treatment of proliferative diseases, e.g. cancer.
 XX
 PS Example 1; Page 11; 97pp; English.

CC Poly (A)+ RNA isolated from HepG2 cells was subjected to Rapid
 CC Amplification of cDNA Ends (RACE) using Pur-specific primers AAQ44810-
 CC Q44813 as part of the procedure for characterising the PUR protein. (The
 CC PUR protein was originally identified as a 27kD HeLa cell nuclear factor
 CC that bound in a sequence-specific manner to single-stranded PUR
 CC elements). (Updated on 25-MAR-2003 to correct PN field.)
 XX
 SQ Sequence 20 BP; 9 A; 8 C; 1 G; 2 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 20;
 Best Local Similarity 90.0%; Pred. No. 1e+03;
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 2329 GTGTGGTGTGTGTGTGTGT 2348
 DB 20 GTATGCATGTGTGTGTGT 1

RESULT 779
 AAQ59720
 ID AAQ59720 standard; DNA; 20 BP.
 XX
 AC AAQ59720;
 XX
 DT 22-JUL-1999 (first entry)
 XX
 DE Modified oligonucleotide containing N3'-P5' phosphoramidates.

XX Oligodeoxyribonucleotide; intersubunit linkage;
 KW phosphoramidate intersubunit; antisense activity; nuclease resistant;
 KW in-vitro cell growth inhibition assay; infection;
 KW smooth muscle cell proliferation disorder; inflammatory process;
 KW genetic disorder; cancer; ss.
 XX Synthetic.
 OS
 XX Key Location/Qualifiers
 XX modified_base 1..8
 FH /tag= a
 FT /note= "each base is linked by N3'-P5' phosphoramidate
 FT linkages"
 FT
 FT
 FT
 PN WO9525814-A1.
 XX
 XX 28-SEP-1995.
 PD
 XX 20-MAR-1995; 95WO-US003575.
 PF
 XX 18-MAR-1994; 94US-00210505.
 PR
 XX 18-MAR-1994; 94US-00214599.
 PR
 XX (LYNX-) LYNX THERAPEUTICS INC.
 PA
 XX Gryaznov SM, Schultz RG, Chen J;
 XX WPI; 1995-344627/44.
 XX
 XX Oligo:nucleotide N3'-P5' phosphoramidate(s) - have improved resistance
 XX toward phosphodiesterase digestion, and form stable duplexes with DNA and
 XX RNA strands.
 XX
 XX Disclosure; Page 55; 101pp; English.
 PS
 XX The specification describes oligodeoxyribonucleotides having contiguous
 CC nucleoside subunits joined by intersubunit linkages, where at least 3
 CC contiguous subunits are joined by phosphoramidate intersubunits. The
 CC oligodeoxyribonucleotides has a sequence of nucleoside subunits effective
 CC to form a duplex with a target nucleic acid molecule. The
 CC oligodeoxyribonucleotides are more resistant to nuclease digestion and
 CC have improved RNA and dsDNA hybridisation characteristics, relative to
 CC oligonucleotides not containing N3'-P5' phosphoramidate linkages. They
 CC also have excellent antisense activity against complementary mRNA targets
 CC in in-vitro cell growth inhibition assays. They also exhibit low
 CC cytotoxicity. They may be used in diagnostic and therapeutic
 CC applications, e.g., in combatting infections agents such as bacteria,
 CC viruses, etc. or in treatment of smooth muscle cell proliferation
 CC disorders, inflammatory processes, certain genetic disorders, cancers,
 CC etc. The present sequence represents an oligonucleotide of the invention
 XX
 XX Sequence 20 BP; 8 A; 0 C; 0 G; 12 T; 0 U; 0 Other;
 SQ
 Query Match 0.4%; Score 16.8; DB 1; Length 20;
 Best Local Similarity 90.0%; Pred. No. 1e+03;
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 3463 TATATATATCTATATATATA 3482
 DB 1 TATATATATTTTATATATA 20
 RESULT 780
 AAX59720/C
 ID AAX59720 standard; DNA; 20 BP.
 XX
 XX AAX59720;
 AC
 XX 22-JUL-1999 (first entry)
 DT
 XX Modified oligonucleotide containing N3'-P5' phosphoramidates.
 DE
 XX PCR primer; polymerase chain reaction; amplification; UM-STS;
 KW

KW Oligodeoxyribonucleotide; intersubunit linkage;
 KW phosphoramidate intersubunit; antisense activity; nuclease resistant;
 KW in-vitro cell growth inhibition assay; infection;
 KW smooth muscle cell proliferation disorder; inflammatory process;
 KW genetic disorder; cancer; ss.
 XX Synthetic.
 OS
 XX Key Location/Qualifiers
 XX modified_base 1..8
 FH /tag= a
 FT /note= "each base is linked by N3'-P5' phosphoramidate
 FT linkages"
 FT
 FT
 FT
 PN WO9525814-A1.
 XX
 XX 28-SEP-1995.
 PD
 XX 20-MAR-1995; 95WO-US003575.
 PF
 XX 18-MAR-1994; 94US-00210505.
 PR
 XX 18-MAR-1994; 94US-00214599.
 PR
 XX (LYNX-) LYNX THERAPEUTICS INC.
 PA
 XX Gryaznov SM, Schultz RG, Chen J;
 XX WPI; 1995-344627/44.
 XX
 XX Oligo:nucleotide N3'-P5' phosphoramidate(s) - have improved resistance
 XX toward phosphodiesterase digestion, and form stable duplexes with DNA and
 XX RNA strands.
 XX
 XX Disclosure; Page 55; 101pp; English.
 PS
 XX The specification describes oligodeoxyribonucleotides having contiguous
 CC nucleoside subunits joined by intersubunit linkages, where at least 3
 CC contiguous subunits are joined by phosphoramidate intersubunits. The
 CC oligodeoxyribonucleotides has a sequence of nucleoside subunits effective
 CC to form a duplex with a target nucleic acid molecule. The
 CC oligodeoxyribonucleotides are more resistant to nuclease digestion and
 CC have improved RNA and dsDNA hybridisation characteristics, relative to
 CC oligonucleotides not containing N3'-P5' phosphoramidate linkages. They
 CC also have excellent antisense activity against complementary mRNA targets
 CC in in-vitro cell growth inhibition assays. They also exhibit low
 CC cytotoxicity. They may be used in diagnostic and therapeutic
 CC applications, e.g., in combatting infections agents such as bacteria,
 CC viruses, etc. or in treatment of smooth muscle cell proliferation
 CC disorders, inflammatory processes, certain genetic disorders, cancers,
 CC etc. The present sequence represents an oligonucleotide of the invention
 XX
 XX Sequence 20 BP; 8 A; 0 C; 0 G; 12 T; 0 U; 0 Other;
 SQ
 Query Match 0.4%; Score 16.8; DB 1; Length 20;
 Best Local Similarity 90.0%; Pred. No. 1e+03;
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 2823 TATATATACATATATATATA 2842
 DB 20 TATATATATAAATATATATA 1
 RESULT 781
 AAV01155
 ID AAV01155 standard; DNA; 20 BP.
 XX
 XX AAV01155;
 AC
 XX 23-MAR-1998 (first entry)
 DT
 XX c-KIT protooncogene PCR primer for universal mammalian STS's.
 DE
 XX PCR primer; polymerase chain reaction; amplification; UM-STS;
 KW

Best Local Similarity 90.0%; Pred. No. 1e+03; Mismatches 0; Indels 2; Gaps 0;

Matches 18; Conservative 0; Mismatches 2; Indels 2; Gaps 0;

QY 2329 GTGTGCGTGTGTGTGTGTGT 2348
 Db 20 GTATGATGTGTGTGTGTGT 1

RESULT 784
 AAX04091/c
 ID AAX04091 standard; DNA; 20 BP.
 XX
 AC AAX04091;
 XX
 DT 12-APR-1999 (first entry)
 XX
 DE PUR-alpha RACE reaction primer EX-990.
 XX
 KW PUR element; PUR-alpha; hyperproliferative disease; cancer; human;
 KW monoclonal antibody; identification; characterisation; RACE primer; ss.
 XX
 OS Synthetic.
 OS Homo sapiens.
 XX
 PN US5869622-A.
 XX
 PD 09-FEB-1999.
 XX
 PF 07-JUN-1995; 95US-00486809.
 XX
 PR 28-AUG-1992; 92US-00938189.
 PR 02-FEB-1993; 93US-00014943.
 PR 06-JUN-1995; 95US-00470911.
 XX
 PA (MOUN) MOUNT SINAI SCHOOL MEDICINE.
 XX
 PI Bergemann AD, Johnson EM;
 XX
 DR WPI; 1999-152881/13.
 XX
 PT Monoclonal antibody specific for PUR protein - useful for treating
 PT cancer.
 XX
 PS Example; Col 10; 64pp; English.
 CC
 CC The present invention describes a monoclonal antibody that specifically
 CC binds to an epitope of the PUR protein. Antibodies that bind to the PUR
 CC protein and neutralise PUR activity may be used to treat
 CC hyperproliferative diseases such as cancer. PUR antibodies may be used
 CC diagnostically to detect aberrant expression of the PUR protein and/or
 CC mutations in the PUR gene. The present sequence represents a PUR-alpha
 CC RACE primer which is used in an example from the present invention
 XX
 SQ Sequence 20 BP; 9 A; 8 C; 1 G; 2 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 20;
 Best Local Similarity 90.0%; Pred. No. 1e+03;
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2329 GTGTGCGTGTGTGTGTGTGT 2348
 Db 20 GTATGATGTGTGTGTGTGT 1

RESULT 785
 AAZ98503/c
 ID AAZ98503 standard; DNA; 20 BP.
 XX
 AC AAZ98503;
 XX
 DT 19-JUN-2000 (first entry)
 XX
 DE H. discus derived sequence #21.

Query Match 0.4%; Score 16.8; DB 1; Length 20;
 Best Local Similarity 90.0%; Pred. No. 1e+03;
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2329 GTGTGCGTGTGTGTGTGTGT 2348
 Db 20 GTATGATGTGTGTGTGTGT 1

RESULT 786
 AAZ95391/c
 ID AAZ95391 standard; DNA; 20 BP.
 XX
 AC AAZ95391;
 XX
 DT 12-FEB-2001 (first entry)
 XX
 DE Rat FGFR coding sequence PCR primer #2.
 XX
 KW Rat; Nurr1; tyrosine hydroxylase; catecholamine-related disease;
 KW Parkinson's disease; manic depression; schizophrenia; PCR primer; ss.
 XX
 OS Rattus norvegicus.
 XX
 PN WO200058451-A1.
 XX
 PD 05-OCT-2000.
 XX
 PF 21-MAR-2000; 2000WO-US007544.
 XX
 PR 26-MAR-1999; 99US-00277078.
 XX
 PA (SALK) SALK INST BIOLOGICAL STUDIES.
 XX
 PI Sakurada K, Palmer T, Gage FH;

XX
 KW Satellite sequence; DNA fragmentation; microsatellite DNA; DNA marker;
 KW Haliotis discus; ss.
 XX
 OS Haliotis discus.
 XX
 PN WO200011156-A1.
 XX
 PD 02-MAR-2000.
 XX
 PF 01-JUL-1999; 99WO-JP003551.
 XX
 PR 18-AUG-1998; 98JP-00232153.
 XX
 PA (NORQ) JAPAN MIN AGRIC FORESTRY & FISHERIES.
 XX
 PI Takahashi H, Sekino M;
 XX
 DR WPI; 2000-224692/19.
 XX
 PT Isolation of satellite sequences from genomic DNA for use as DNA markers
 PT comprises isolating a library with high homogeneity by DNA fragmentation.
 XX
 PS Example 5; Page 14; 35pp; Japanese.
 XX
 CC The invention provides a novel method for isolation of satellite
 CC sequences from genomic DNA that comprises fragmentation of the DNA by a
 CC method which is not dependent on base sequences, then selection of the
 CC satellite sequences from the obtained genomic library of high
 CC homogeneity. The method is useful for the isolation of microsatellite DNA
 CC sequences which can be used as DNA markers. The new method markedly
 CC improves the efficiency of isolation of satellite sequences in comparison
 CC to prior art methods which are reliant on base sequences. Sequences
 CC AAZ98483-514 represent sequences from Haliotis discus, used in the method
 CC of the invention
 XX
 SQ Sequence 20 BP; 11 A; 9 C; 0 G; 0 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 20;
 Best Local Similarity 90.0%; Pred. No. 1e+03;
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2318 TGTGTGTGTGTGTGTGTGTGTGT 2337
 Db 20 TGTGTGTGTGTGTGTGTGTGTGT 1

RESULT 786
 AAZ95391/c
 ID AAZ95391 standard; DNA; 20 BP.
 XX
 AC AAZ95391;
 XX
 DT 12-FEB-2001 (first entry)
 XX
 DE Rat FGFR coding sequence PCR primer #2.
 XX
 KW Rat; Nurr1; tyrosine hydroxylase; catecholamine-related disease;
 KW Parkinson's disease; manic depression; schizophrenia; PCR primer; ss.
 XX
 OS Rattus norvegicus.
 XX
 PN WO200058451-A1.
 XX
 PD 05-OCT-2000.
 XX
 PF 21-MAR-2000; 2000WO-US007544.
 XX
 PR 26-MAR-1999; 99US-00277078.
 XX
 PA (SALK) SALK INST BIOLOGICAL STUDIES.
 XX
 PI Sakurada K, Palmer T, Gage FH;

CC expression. The antisense compounds are useful to prevent or treat
CC diseases associated with h1beta4BP expression, particularly conditions
CC involving aberrant or deregulated cell proliferation (e.g. cancer). The
CC h1beta4BP polynucleotide is used in gene therapy. The present sequence is
CC an antisense oligonucleotide targetted to h1beta4BP
XX
SQ Sequence 20 BP; 2 A; 4 C; 7 G; 7 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1e+03;
Matches 18; Conservative 0; Mismatches 0; Gaps 0;
QY 718 AACACACCCGACGAGGCT 737
||| ||||| ||||| |||||
DB 20 AATACCACCGACGAGGCT 1

RESULT 789
AAD22911/c
ID AAD22911 standard; DNA; 20 BP.
XX
AC AAD22911;
XX
DT 26-FEB-2002 (first entry)
XX
DE Human soluble LIGHT DNA generating mutagenic forward PCR primer #4.
XX
KW Human; herpes virus entry-mediated; HVEM; p30; immunosuppressive; tumour;
KW inflammatory disorder; herpes virus infection; lymphocyte proliferation;
KW neuroprotective; dermatological; virucide; gene therapy; PCR primer; SLB;
KW systemic lupus erythematosus; autoimmune disease; diabetes mellitus;
KW rheumatoid arthritis; multiple sclerosis; myasthenia gravis; LIGHT; ss.
XX
OS Homo sapiens.
XX
PN WO200179496-A2.
XX
PD 25-OCT-2001.
XX
PF 11-APR-2001; 2001WO-US011857.
XX
PR 12-APR-2000; 2000US-00549096.
XX
PA (LJOL-) LA JOLLA INST ALLERGY & IMMUNOLOGY.
XX
PI Ware CF;
XX
XX WPI; 2002-026029/03.

Novel polypeptide useful for inhibiting herpes virus production in cells,
PT comprises isolated or recombinant homotrimeric p30 polypeptides which
PT bind to lymphotoxin receptor and to herpes virus entry-mediated
PT polypeptide (HVEM).
XX
XX Example 12; Page 59; 104pp; English.

CC The invention relates to an isolated or recombinant homotrimeric p30
CC polypeptide comprising a monomer polypeptide with a molecular weight of
CC 30 kDa. p30 is found on the membrane protein and also functions as a
CC cytokine. p30 is also called LIGHT because this is homologous to
CC lymphotoxins, exhibits inducible expression, and competes with HSV
CC Glycoprotein D for HVEM, a receptor expressed T lymphocytes.p30 binds to
CC lymphotoxin beta receptor or to herpes virus entry-mediated polypeptide
CC (HVEM). p30 is useful for inhibiting virus production in cells and for
CC modulating a lymphotoxin beta receptor (LTV SR)-mediated cellular
CC response. p30 is useful for treating inflammatory disorders, tumours, for
CC blocking the entry of herpes virus into cells, and to treat or prevent
CC herpes virus infections such as beta herpes virus and cytomegalovirus.
CC p30 is also useful for inhibiting p30-mediated cellular response e.g.,
CC inhibition of a lymphocyte (a pathogenic effector cell) cellular response
CC such as lymphocyte proliferation. The inhibited lymphocyte response
CC modulates a T or B lymphoma or an autoimmune disease such as rheumatoid
CC arthritis, insulin dependent diabetes mellitus, multiple sclerosis,

CC systemic lupus erythematosus (SLE) or myasthenia gravis. Also, the
CC inhibited lymphocyte response modulates a reaction to a transplant. p30
CC DNA is useful in gene therapy. The present sequence is a mutagenic PCR
CC primer used for generating soluble LIGHT DNA also referred as p30
XX
SQ Sequence 20 BP; 3 A; 6 C; 7 G; 4 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1e+03;
Matches 18; Conservative 0; Mismatches 0; Gaps 0;
QY 2110 AGCTCCAGCTCCTCAGGGGA 2129
||| ||||| ||||| |||||
DB 20 AGCTCCAGCTCCTCAGGGGA 1

RESULT 790
ABX80012/c
ID ABX80012 standard; cDNA; 20 BP.
XX
AC ABX80012;
XX
DT 17-APR-2003 (first entry)
XX
DE EST polymorphic DNA repeat polynucleotide #337.
XX
KW EST; expressed sequence tag; ss; polymorphic repeat; tandem repeat;
KW polymorphic marker prediction of ubiquitous simple sequences; POMPOUS;
KW Rep-X; human; genetic disease; drug-treatment; Machado-Joseph;
KW Haw River syndrome; Huntington's disease; fragile-X syndrome;
KW Friedrich's ataxia; myotonic dystrophy; hyperandrogenaemia;
KW spinal atrophy; bulbar atrophy; spinocerebellar ataxia.
XX
OS Homo sapiens.
XX
PN US6472154-B1.
XX
PD 29-OCT-2002.
XX
PF 31-DEC-1999; 99US-00475947.
XX
PR 31-DEC-1999; 99US-00475947.
XX
PA (TEXA) UNIV TEXAS SYSTEM.
XX
PI Garner HR, Wren JD, Minna JD, Fondon JW;
XX
XX WPI; 2003-208818/20.
XX
PT Identifying a candidate polymorphic repeat within a coding sequence, for
PT understanding or treating genetic disease, comprises detecting tandem
PT repeats in a target coding sequence and scoring the repeats for
PT polymorphic probability.
XX
PS Example; Col 1165; 588pp; English.

CC The invention discloses a method for identifying a candidate polymorphic
CC repeat within a coding sequence (expressed sequence tag, EST), which
CC comprises detecting tandem repeats in a target coding sequence, scoring
CC the repeats for polymorphic probability and generating a dataset
CC correlating the repeats with polymorphic probability to identify a
CC candidate polymorphic repeat. The computational methods (polymorphic
CC marker prediction of ubiquitous simple sequences, POMPOUS, and Rep-X) are
CC useful for identifying and detecting candidate polymorphic repeats in
CC human genes, which can be used to understand, treat or eliminate genetic
CC diseases, predispositions or adverse drug-treatment reactions. Examples
CC of diseases linked to nucleotide repeats are Machado-Joseph, Haw River
CC syndrome, Huntington's disease, fragile-X syndrome, Friedrich's ataxia,
CC myotonic dystrophy, hyperandrogenaemia, spinal and bulbar atrophy and
CC spinocerebellar ataxia. The sequences presented in ABX79676-ABX80022 are
CC the polymorphic repeats identified for a search of human ESTs
XX
SQ Sequence 20 BP; 9 A; 11 C; 0 G; 0 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2313 TGGTCGTGTCGTGTCGTGTCGT 2332
DB 20 TGGGTCGTGTCGTGTCGTGTCGT 1

RESULT 791
ABZ81533/C
ID ABZ81533 standard; DNA; 20 BP.
XX
AC ABZ81533;
XX
DT 26-AUG-2003 (first entry)
XX
DE PKA regulatory subunit RII beta antisense oligonucleotide ISIS #114458.
XX
KW Human; cytostatic; antidiabetic; antisense therapy; phosphorothioate;
KW protein kinase inhibitor; protein kinase A; PKA;
KW regulatory subunit RII beta; cAMP-dependent protein kinase; diabetes;
KW cancer; infection; inflammation; tumour; ss.
XX
OS Synthetic.

XX
FH Key Location/Qualifiers
FT modified_base 1..20
FT /*tag= a
FT /mod_base= OTHER
FT /note= "Oligonucleotide has phosphorothioate backbone and
FT all cytidine nucleotides are 5-methylcytidine. Optionally
FT some nucleotides with 2'-methoxyethyl (2'-MOE wings)
FT modification"

XX
PN WO2003010283-A2.
XX
XX
PD 06-FEB-2003.
XX
XX 15-JUL-2002; 2002WO-US022629.
XX
XX 25-JUL-2001; 2001US-00915485.
XX
PA (ISIS-) ISIS PHARM INC.
XX
XX Monia BP, Wyatt JR;
XX
XX WPI; 2003-239434/23.
XX
XX New antisense oligonucleotides targeted to nucleic acid encoding protein
XX Kinase A regulatory subunit RII beta, useful in treating diseases e.g.
XX cancer associated with the aberrant expression of the protein kinase.
XX
XX Claim 3; Page 74; 98pp; English.

XX
XX The present invention relates to novel antisense oligonucleotides
XX (ABZ81522-ABZ81593) which are targeted to human protein kinase A (PKA)
XX regulatory subunit RII beta nucleotide sequence (ABZ81513), and which
XX specifically hybridise with and inhibit the expression of the PKA
XX regulatory subunit RII beta (PKA is also known as cAMP-dependent protein
XX kinase). The antisense oligonucleotides are useful for modulating the
XX expression of PKA regulatory subunit RII beta and for treating diseases
XX or conditions associated with aberrant expression of PKA regulatory
XX subunit RII beta, e.g. diabetes or cancer. The antisense compounds are
XX also useful for diagnostics, therapeutics, prophylaxis, e.g. to prevent
XX or delay infection, inflammation or tumour formation, as research
XX reagents and kits, and in distinguishing between functions of various
XX members of a biological pathway

XX
SQ Sequence 20 BP; 0 A; 13 C; 2 G; 5 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 20;

Best Local Similarity 90.0%; Pred. No. 1e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 177 CGAGACGGGAGGACGAGG 196
DB 20 CGAGACGGGAGGAGGAGG 1

RESULT 792
ABZ89549
ID ABZ89549 standard; DNA; 20 BP.
XX
AC ABZ89549;
XX
DT 17-OCT-2003 (first entry)
XX
DE Human oligonucleotide sequence.
XX
KW Human; antisense; lung dysfunction; nasal airway dysfunction;
KW antiinflammatory steroid; ubiqunone; antiinflammatory; antiallergic;
KW antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy;
KW antisense gene therapy; respiratory; lung; adenosine sensitivity;
KW adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;
KW lung inflammation; respiratory disease; ds.
XX
OS Homo sapiens.
XX
XX WO200285308-A2.
XX
PD 31-OCT-2002.
XX
XX 23-APR-2002; 2002WO-US013135.
XX
XX 24-APR-2001; 2001US-0286137P.
XX
XX (EPTG-) EPIGENESIS PHARM INC.
XX
XX Nyce JW, Li Y, Sandrasegura A, Katz E, Pabalan J, Aguilar D;
XX Miller S, Tang L, Shahabuddin S;
XX WPI; 2003-229219/22.
XX
XX Pharmacutical composition for treating ailments associated with impaired
XX respiration, has oligo(s) antisense to specific gene(s) or its
XX corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
XX ubiqunone.
XX
XX Disclosure; SEQ ID NO 4791; 872pp; English.

XX
XX The invention relates to a novel pharmaceutical composition, which has a
XX first active agent comprising an oligonucleotide antisense to the
XX initiation codon, coding region, 5' or 3' end genomic flanking regions,
XX 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of
XX junctions of genes encoding a polypeptide associated with lung and/or
XX nasal airway dysfunction and a second active agent comprising an
XX antiinflammatory steroid and ubiqunone. A composition of the invention
XX has antiinflammatory, antiallergic, antiasthmatic, hypotensive,
XX immunosuppressive, and cytostatic activity. The composition may have a
XX use in antisense gene therapy. The composition is useful for treating or
XX preventing a respiratory, lung or malignant disease or condition, also
XX for enhancing the prophylactic or therapeutic respiratory effect of an
XX antiinflammatory steroid in a subject, for reducing or depleting levels
XX of, or reducing sensitivity to adenosine, reducing levels of adenosine
XX receptor, producing bronchodilation, increasing levels of ubiqunone or
XX lung surfactant in a subject's tissue, or treating bronchoconstriction,
XX lung inflammation, lung allergies, or a respiratory disease or condition.
XX Note: the sequence data for this patent is not represented in the printed
XX specification, but was obtained in electronic format directly from WIPO
XX at ftp.wipo.int/pub/published_pct_sequences

XX
SQ Sequence 20 BP; 1 A; 2 C; 8 G; 9 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 20;

Best Local Similarity 90.0%; Pred. No. 1e+03; Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2325 GTGTGTGCGTGTGTGTGT 2344
 |||||
 Db 1 GTATGTGCGTGTGTGTGT 20

RESULT 793
 AB284884
 ID AB284884 standard; DNA; 20 BP.

XX AC AB284884;
 XX DT 17-OCT-2003 (first entry)
 XX DE Human oligonucleotide sequence.

XX KW Human; antisense; lung dysfunction; nasal airway dysfunction;
 KW antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic;
 KW antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy;
 KW antisense gene therapy; respiratory; lung; adenosine sensitivity;
 KW adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;
 KW lung inflammation; respiratory disease; ds.

XX OS Homo sapiens.
 XX PN WO200285308-A2.
 XX PD 31-OCT-2002.

XX PF 23-APR-2002; 2002WO-US013135.
 XX PR 24-APR-2001; 2001US-0286137P.
 XX PA (EPIC-) EPIGENESIS PHARM INC.

XX PI Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;
 XX PI Miller S, Tang L, Shahabuddin S;
 XX DR WPI; 2003-229219/22.

XX PT Pharmaceutical composition for treating ailments associated with impaired
 PT respiration, has oligo(s) antisense to specific gene(s) or its
 PT corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
 PT ubiquinone.

XX PS Claim 15; SEQ ID NO 126; 872pp; English.

XX CC The invention relates to a novel pharmaceutical composition, which has a
 CC first active agent comprising an oligonucleotide antisense to the
 CC initiation codon, coding region, 5' or 3' end genomic flanking regions,
 CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of
 CC junctions of genes encoding a polypeptide associated with lung and/or
 CC nasal airway dysfunction and a second active agent comprising an
 CC antiinflammatory steroid and ubiquinone. A composition of the invention
 CC has antiinflammatory, antiallergic, antiasthmatic, hypotensive,
 CC immunosuppressive, and cytostatic activity. The composition may have a
 CC use in antisense gene therapy. The composition is useful for treating or
 CC preventing a respiratory, lung or malignant disease or condition, also
 CC for enhancing the prophylactic or therapeutic respiratory effect of an
 CC antiinflammatory steroid in a subject, for reducing or depleting levels
 CC of, or reducing sensitivity to adenosine, reducing levels of adenosine
 CC receptor, producing bronchodilation, increasing levels of ubiquinone or
 CC lung surfactant in a subject's tissue, or treating bronchoconstriction,
 CC lung inflammation, lung allergies, or a respiratory disease or condition.
 CC Note: The sequence data for this patent is not represented in the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences

XX SQ Sequence 20 BP; 0 A; 7 C; 4 G; 9 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 20;

Best Local Similarity 90.0%; Pred. No. 1e+03; Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 3644 GGTGTCCTTGTGCTGCTGC 3663
 |||||
 Db 1 GCTGTCCCTTTTGGCTGC 20

RESULT 794
 AB288076
 ID AB288076 standard; DNA; 20 BP.

XX AC AB288076;
 XX DT 17-OCT-2003 (first entry)
 XX DE Human oligonucleotide sequence.

XX KW Human; antisense; lung dysfunction; nasal airway dysfunction;
 KW antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic;
 KW antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy;
 KW antisense gene therapy; respiratory; lung; adenosine sensitivity;
 KW adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;
 KW lung inflammation; respiratory disease; ds.

XX OS Homo sapiens.
 XX PN WO200285308-A2.
 XX PD 31-OCT-2002.

XX PF 23-APR-2002; 2002WO-US013135.
 XX PR 24-APR-2001; 2001US-0286137P.
 XX PA (EPIC-) EPIGENESIS PHARM INC.

XX PI Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;
 XX PI Miller S, Tang L, Shahabuddin S;
 XX DR WPI; 2003-229219/22.

XX PT Pharmaceutical composition for treating ailments associated with impaired
 PT respiration, has oligo(s) antisense to specific gene(s) or its
 PT corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
 PT ubiquinone.

XX PS Disclosure; SEQ ID NO 3318; 872pp; English.

XX CC The invention relates to a novel pharmaceutical composition, which has a
 CC first active agent comprising an oligonucleotide antisense to the
 CC initiation codon, coding region, 5' or 3' end genomic flanking regions,
 CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of
 CC junctions of genes encoding a polypeptide associated with lung and/or
 CC nasal airway dysfunction and a second active agent comprising an
 CC antiinflammatory steroid and ubiquinone. A composition of the invention
 CC has antiinflammatory, antiallergic, antiasthmatic, hypotensive,
 CC immunosuppressive, and cytostatic activity. The composition may have a
 CC use in antisense gene therapy. The composition is useful for treating or
 CC preventing a respiratory, lung or malignant disease or condition, also
 CC for enhancing the prophylactic or therapeutic respiratory effect of an
 CC antiinflammatory steroid in a subject, for reducing or depleting levels
 CC of, or reducing sensitivity to adenosine, reducing levels of adenosine
 CC receptor, producing bronchodilation, increasing levels of ubiquinone or
 CC lung surfactant in a subject's tissue, or treating bronchoconstriction,
 CC lung inflammation, lung allergies, or a respiratory disease or condition.
 CC Note: The sequence data for this patent is not represented in the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences

XX SQ Sequence 20 BP; 6 A; 5 C; 6 G; 3 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 20;

Best Local Similarity 90.0%; Pred. No. 1e+03; Mismatches 18; Conservative 0; Indels 2; Gaps 0;

QY 1876 GAGGAGCTTTCAGCTGCT 1895
 DB 1 GAGGAGCTCAACAGCTGCT 20

RESULT 795
 ABZ98946/c
 ID ABZ98946 standard; DNA; 20 BP.
 XX
 AC ABZ98946;
 XX
 DT 17-OCT-2003 (first entry)
 XX
 DE Human PDE4A oligonucleotide sequence.
 XX
 KW Human; antisense; lung dysfunction; nasal airway dysfunction;
 KW antiinflammatory steroid; ubiqunone; antiinflammatory; antiallergic;
 KW antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy;
 KW antisense gene therapy; respiratory; lung; adenosine sensitivity;
 KW adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;
 KW lung inflammation; respiratory disease; ds.
 XX
 OS Homo sapiens.
 XX
 PN WO20028308-A2.
 XX
 PD 31-OCT-2002.
 XX
 PF 23-APR-2002; 2002WO-US013135.
 XX
 PR 24-APR-2001; 2001US-0286137P.
 XX
 PA (EPIC-) EPIGENESIS PHARM INC.
 XX
 PI Nyce JW, Li Y, Sandrasagra A, Katz B, Pabalan J, Aguilar D;
 PI Miller S, Tang L, Shahabuddin S;
 XX
 DR WPI; 2003-229219/22.
 XX
 PT Pharmaceutical composition for treating ailments associated with impaired
 PT respiration, has oligo(s) antisense to specific gene(s) or its
 PT corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
 PT ubiqunone.
 XX
 PS Disclosure; SEQ ID NO 14188; 872pp; English.
 XX
 CC The invention relates to a novel pharmaceutical composition, which has a
 CC first active agent comprising an oligonucleotide antisense to the
 CC initiation codon, coding region, 5' or 3' end genomic flanking regions,
 CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of
 CC junctions of genes encoding a polypeptide associated with lung and/or
 CC nasal airway dysfunction and a second active agent comprising an
 CC antiinflammatory steroid and ubiqunone. A composition of the invention
 CC has antiinflammatory, antiallergic, antiasthmatic, hypotensive,
 CC immunosuppressive, and cytostatic activity. The composition may have a
 CC use in antisense gene therapy. The composition is useful for treating or
 CC preventing a respiratory, lung or malignant disease or condition, also
 CC for enhancing the prophylactic or therapeutic respiratory effect of an
 CC antiinflammatory steroid in a subject, for reducing or depleting levels
 CC of, or reducing sensitivity to adenosine, reducing levels of adenosine
 CC receptor, producing bronchodilation, increasing levels of ubiqunone or
 CC lung surfactant in a subject's tissue, or treating bronchoconstriction,
 CC lung inflammation, lung allergies, or a respiratory disease or condition.
 CC Note: The sequence data for this patent is not represented in the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences
 XX
 SQ Sequence 20 BP; 3 A; 7 C; 5 G; 5 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 20;
 Best Local Similarity 90.0%; Pred. No. 1e+03;
 Mismatches 18; Conservative 0; Indels 2; Gaps 0;

QY 883 GCAGCTGTATGCAGGCAT 902
 DB 20 GCAGCTGTATGCAGGCAT 1

RESULT 797
 ABD24306
 ID ABD24306 standard; DNA; 20 BP.

Best Local Similarity 90.0%; Pred. No. 1e+03; Mismatches 18; Conservative 0; Indels 2; Gaps 0;

QY 1886 TCAAGCTGCTGAAGCAGGAC 1905
 DB 20 TCAAGCTGCTGAGGAGGAC 1

RESULT 796
 AAD55047/c
 ID AAD55047 standard; DNA; 20 BP.
 XX
 AC AAD55047;
 XX
 DT 26-JUN-2003 (first entry)
 XX
 DE Alstroemeria gad3 gene amplifying primer, NW23.
 XX
 KW Alpha-methylene-gamma-butyrolactone; glutamate decarboxylase; herbicide;
 KW enzyme; gamma-aminobutyrate aminotransferase; UDP-glucosyltransferase;
 KW gamma-hydroxybutyrate dehydrogenase; tulipalin A; plant; primer; PCR; ss.
 XX
 OS Alstroemeria.
 XX
 PN WO2002101013-A2.
 XX
 PD 19-DEC-2002.
 XX
 PF 10-JUN-2002; 2002WO-US018230.
 XX
 PR 08-JUN-2001; 2001US-0297198P.
 XX
 PA (DUPO) DU PONT DE NEMOURS & CO E I.
 PA (PRAB/) PRABHU V.
 XX
 PI Damude HG, Flint D, Prabhu V, Wang H;
 XX
 DR WPI; 2003-201331/19.
 XX
 PT Novel isolated nucleic acid fragment encoding a tuliposide A synthesizing
 PT protein, useful for creating recombinant organisms that have the ability
 PT to synthesize tulipalin A, tuliposide A or tuliposide A pathway
 PT intermediates.
 XX
 PS Example 3; Page 135; 71pp; English.
 XX
 CC The invention relates to genes encoding key enzymes in the biosynthesis
 CC of alpha-methylene-gamma-butyrolactone (tulipalin A). Key enzymes include
 CC glutamate decarboxylase, gamma-aminobutyrate aminotransferase, gamma-
 CC hydroxybutyrate dehydrogenase and UDP-glucosyltransferase. The invention
 CC is useful for producing tulipalin A or tuliposide A or its pathway
 CC intermediates such as alpha-methylenesuccinate semialdehyde, alpha-
 CC methylene-gamma-aminobutyrate or alpha-methylene-gamma-hydroxybutyrate.
 CC Tulipalin A sequences are used to immunise animals to produce polyclonal
 CC or monoclonal antibodies with specificity for them or as targets to
 CC facilitate design and/or identification of inhibitors of those enzymes
 CC that may be useful as herbicides. The present sequence is a primer used
 CC to amplify Alstroemeria glutamate decarboxylase homologue gene (gad3)
 XX
 SQ Sequence 20 BP; 6 A; 7 C; 2 G; 5 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 20;
 Best Local Similarity 90.0%; Pred. No. 1e+03;
 Mismatches 18; Conservative 0; Indels 2; Gaps 0;

QY 883 GCAGCTGTATGCAGGCAT 902
 DB 20 GCAGCTGTATGCAGGCAT 1

RESULT 797
 ABD24306
 ID ABD24306 standard; DNA; 20 BP.

XX AC ABD24306;
 XX DT 29-JUL-2004 (first entry)
 XX DE AT095013-derived oligonucleotide DNA SEQ ID 3318.
 XX DE Human; antisense; bronchoconstriction; allergy; hyposecretion; pain;
 KW respiratory tract inflammation; adenosine sensitivity; lung; cancer;
 KW surfactant depletion; antiallergic; antiinflammatory; antiasthmatic;
 KW analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis;
 KW beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction;
 KW respiratory distress syndrome; allergic rhinitis; pulmonary hypertension;
 KW emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;
 KW pulmonary transplantation rejection; ss; primer.
 XX OS Homo sapiens.
 XX PN WO200285309-A2.
 XX PD 31-OCT-2002.
 XX PF 23-APR-2002; 2002WO-US013143.
 XX PR 24-APR-2001; 2001US-0286036P.
 XX PA (EPIG-) EPIGENESIS PHARM INC.
 XX PI Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;
 PI Miller S, Tang L, Shahabuddin S;
 XX WPI; 2003-093058/08.
 XX PT Pharmaceutical composition for treating asthma, has antisense
 PT oligonucleotide containing less percentage of adenosine, targeted to
 PT nucleic acids associated with lung airway or lung dysfunction, and
 PT bronchodilating agent.
 XX PS Claim 15; SEQ ID NO 3318; 763pp; English.
 XX CC This invention describes a novel composition (a) a first active agent,
 CC comprising oligonucleotides, effective for alleviating
 CC bronchoconstriction, respiratory tract inflammation, allergies and
 CC reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors,
 CC surfactant depletion or hyposecretion, when administered to a mammal. The
 CC oligonucleotides are derived from a gene encoding or regulating
 CC expression of a target polypeptide associated with lung airway or lung
 CC dysfunction or cancer and can be anti-sense to the corresponding mRNA.
 CC The invention also describes a kit, that comprises: (a) a delivery
 CC device, in separate containers, (b) the oligonucleotides, (c)
 CC instructions for adding a carrier and for use of the kit. The composition
 CC of the invention has antiallergic, antiinflammatory, antiasthmatic,
 CC analgesic, hypotensive, immunosuppressive and cytostatic activity, is a
 CC beta-adrenergic agonist. The composition is useful for preventing or
 CC treating a respiratory, lung or malignant disease. The administered
 CC composition comprises oligo and is administered to reduce the production
 CC of availability, or to increase the degradation of the target mRNA or to
 CC reduce the amount of target polypeptide present in the lungs. The
 CC pulmonary obstruction, and/or bronchoconstriction and/or lung
 CC inflammation, allergies and/or surfactant hypoproduction are associated
 CC with a disease or condition such as pulmonary vasoconstriction,
 CC inflammation, allergies, asthma, impeded respiration, respiratory
 CC distress syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary
 CC hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary
 CC transplantation rejection, pulmonary infections, bronchitis or cancer.
 CC The reduced adenosine content of the anti-sense oligos corresponding to
 CC thymidines present in the target RNA serves to prevent the breakdown of
 CC the oligonucleotides into products that free adenosine into the system
 CC e.g., lung, brain, heart, kidney, etc, tissue environment and thereby, to
 CC prevent any unwanted effects due to it
 XX Sequence 20 BP; 6 A; 5 C; 6 G; 3 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 20;
 Best Local Similarity 90.0%; Pred. No. 1e-03; Indels 0; Gaps 0;
 Matches 18; Conservative 0; Mismatches 2;
 QY 1876 GAGGAGCTCTTCAAGCTGCT 1895
 DB 1 GAGGAGCTCAACAGCTGCT 20
 RESULT 798
 ID ABD31977/c
 XX ABD31977 standard; DNA; 20 BP.
 AC ABD31977;
 XX 29-JUL-2004 (first entry)
 DT Human PDE4A-derived oligonucleotide SEQ ID 14188.
 DE Human; antisense; bronchoconstriction; allergy; hyposecretion; pain;
 KW respiratory tract inflammation; adenosine sensitivity; lung; cancer;
 KW surfactant depletion; antiallergic; antiinflammatory; antiasthmatic;
 KW analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis;
 KW beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction;
 KW respiratory distress syndrome; allergic rhinitis; pulmonary hypertension;
 KW emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;
 KW pulmonary transplantation rejection; ss; primer.
 XX OS Homo sapiens.
 XX PN WO200285309-A2.
 XX PD 31-OCT-2002.
 XX PF 23-APR-2002; 2002WO-US013143.
 XX PR 24-APR-2001; 2001US-0286036P.
 XX PA (EPIG-) EPIGENESIS PHARM INC.
 XX PI Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;
 PI Miller S, Tang L, Shahabuddin S;
 XX WPI; 2003-093058/08.
 XX PT Pharmaceutical composition for treating asthma, has antisense
 PT oligonucleotide containing less percentage of adenosine, targeted to
 PT nucleic acids associated with lung airway or lung dysfunction, and
 PT bronchodilating agent.
 XX PS Claim 15; SEQ ID NO 14188; 763pp; English.
 XX CC This invention describes a novel composition (a) a first active agent,
 CC comprising oligonucleotides, effective for alleviating
 CC bronchoconstriction, respiratory tract inflammation, allergies and
 CC reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors,
 CC surfactant depletion or hyposecretion, when administered to a mammal. The
 CC oligonucleotides are derived from a gene encoding or regulating
 CC expression of a target polypeptide associated with lung airway or lung
 CC dysfunction or cancer and can be anti-sense to the corresponding mRNA.
 CC The invention also describes a kit, that comprises: (a) a delivery
 CC device, in separate containers, (b) the oligonucleotides, (c)
 CC instructions for adding a carrier and for use of the kit. The composition
 CC of the invention has antiallergic, antiinflammatory, antiasthmatic,
 CC analgesic, hypotensive, immunosuppressive and cytostatic activity, is a
 CC beta-adrenergic agonist. The composition is useful for preventing or
 CC treating a respiratory, lung or malignant disease. The administered
 CC composition comprises oligo and is administered to reduce the production
 CC of availability, or to increase the degradation of the target mRNA or to
 CC reduce the amount of target polypeptide present in the lungs. The
 CC pulmonary obstruction, and/or bronchoconstriction and/or lung
 CC inflammation, allergies and/or surfactant hypoproduction are associated
 CC with a disease or condition such as pulmonary vasoconstriction,

CC inflammation, allergies, asthma, impeded respiration, respiratory
CC distress syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary
CC hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary
CC transplantation rejection, pulmonary infections, bronchitis or cancer.
CC The reduced adenosine content of the anti-sense oligos corresponding to
CC thymidines present in the target RNA serves to prevent the breakdown of
CC the oligonucleotides into products that free adenosine into the system
CC e.g., lung, brain, heart, kidney, etc, tissue environment and thereby, to
CC prevent any unwanted effects due to it
XX
SQ Sequence 20 BP; 3 A; 7 C; 5 G; 5 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1886 TCAAGCTGCTGAGGAGGAC 1905
DB 20 TCAAGCTGCTGAGGAGGAC 1

RESULT 799
ABD21114
ID ABD21114 standard; DNA; 20 BP.
XX
AC ABD21114;
XX
DT 29-JUL-2004 (first entry)
XX
DE Human transglutaminase-derived oligo SEQ ID 126.
XX
KW Human; antisense; bronchoconstriction; allergy; hyposecretion; pain;
KW respiratory tract inflammation; adenosine sensitivity; lung; cancer;
KW surfactant depletion; antiallergic; antiinflammatory; antiasthmatic;
KW analgesic; hypotensive; immunosuppressive; cystic fibrosis;
KW beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction;
KW respiratory distress syndrome; allergic rhinitis; pulmonary hypertension;
KW emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;
KW pulmonary transplantation rejection; ss; primer.
XX
OS Homo sapiens.
XX
PN WO200285309-A2.
XX
PD 31-OCT-2002.
XX
PF 23-APR-2002; 2002WO-US013143.
XX
PR 24-APR-2001; 2001US-0286036P.
XX
PA (EPIG-) EPIGENESIS PHARM INC.
XX
PI Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;
PI Miller S, Tang L, Shahabuddin S;
XX
DR WPI; 2003-093058/08.
XX
PT Pharmaceutical composition for treating asthma, has antisense
PT oligonucleotide containing less percentage of adenosine, targeted to
PT nucleic acids associated with lung airway or lung dysfunction, and
PT bronchodilating agent.
XX
PS Claim 15; SEQ ID NO 126; 763pp; English.
XX
XX This invention describes a novel composition (a) a first active agent,
CC comprising oligonucleotides, effective for alleviating
CC bronchoconstriction, respiratory tract inflammation, allergies and
CC reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors,
CC surfactant depletion or hyposecretion, when administered to a mammal. The
CC oligonucleotides are derived from a gene encoding or regulating
CC expression of a target polypeptide associated with lung airway or lung
CC dysfunction or cancer and can be anti-sense to the corresponding mRNA.
CC The invention also describes a kit, that comprises: (a) a delivery

CC device, in separate containers, (b) the oligonucleotides, (c)
CC instructions for adding a carrier and for use of the kit. The composition
CC of the invention has anti-allergic, antiinflammatory, antiasthmatic,
CC analgesic, hypotensive, immunosuppressive and cytostatic activity, is a
CC beta-adrenergic agonist. The composition is useful for preventing or
CC treating a respiratory, lung or malignant disease. The administered
CC composition comprises oligo and is administered to reduce the production
CC or availability, or to increase the degradation of the target mRNA or to
CC reduce the amount of target polypeptide present in the lungs. The
CC pulmonary obstruction, and/or bronchoconstriction and/or lung
CC inflammation, allergies and/or surfactant hypoproduction are associated
CC with a disease or condition such as pulmonary vasoconstriction,
CC inflammation, allergies, asthma, impeded respiration, respiratory
CC distress syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary
CC hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary
CC transplantation rejection, pulmonary infections, bronchitis or cancer.
CC The reduced adenosine content of the anti-sense oligos corresponding to
CC thymidines present in the target RNA serves to prevent the breakdown of
CC the oligonucleotides into products that free adenosine into the system
CC e.g., lung, brain, heart, kidney, etc, tissue environment and thereby, to
CC prevent any unwanted effects due to it
XX
SQ Sequence 20 BP; 0 A; 7 C; 4 G; 9 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 3644 GCTGTCCCTTGCTGCTGC 3663
DB 1 GCTGTCCCTTTTTCCTGC 20

RESULT 800
ABD25779
ID ABD25779 standard; DNA; 20 BP.
XX
AC ABD25779;
XX
DT 29-JUL-2004 (first entry)
XX
DE AI085559-derived oligonucleotide SEQ ID 4791.
XX
KW Human; antisense; bronchoconstriction; allergy; hyposecretion; pain;
KW respiratory tract inflammation; adenosine sensitivity; lung; cancer;
KW surfactant depletion; antiallergic; antiinflammatory; antiasthmatic;
KW analgesic; hypotensive; immunosuppressive; cystic fibrosis;
KW beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction;
KW respiratory distress syndrome; allergic rhinitis; pulmonary hypertension;
KW emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;
KW pulmonary transplantation rejection; ss; primer.
XX
OS Homo sapiens.
XX
PN WO200285309-A2.
XX
PD 31-OCT-2002.
XX
PF 23-APR-2002; 2002WO-US013143.
XX
PR 24-APR-2001; 2001US-0286036P.
XX
PA (EPIG-) EPIGENESIS PHARM INC.
XX
PI Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;
PI Miller S, Tang L, Shahabuddin S;
XX
DR WPI; 2003-093058/08.
XX
PT Pharmaceutical composition for treating asthma, has antisense
PT oligonucleotide containing less percentage of adenosine, targeted to
PT nucleic acids associated with lung airway or lung dysfunction, and
PT bronchodilating agent.

PS Claim 15; SEQ ID NO 4791; 763pp; English.

XX This invention describes a novel composition (a) a first active agent,
 XX comprising oligonucleotides, effective for alleviating
 CC bronchoconstriction, respiratory tract inflammation, allergies and
 CC reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors,
 CC surfactant depletion or hyposcretion, when administered to a mammal. The
 CC oligonucleotides are derived from a gene encoding or regulating
 CC expression of a target polypeptide associated with lung airway or lung
 CC dysfunction or cancer and can be anti-sense to the corresponding mRNA.
 CC The invention also describes a kit, that comprises: (a) a delivery
 CC device, in separate containers, (b) the oligonucleotides, (c)
 CC instructions for adding a carrier and for use of the kit. The composition
 CC of the invention has anti-allergic, anti-inflammatory, antiasthmatic,
 CC analgesic, hypotensive, immunosuppressive and cytostatic activity, is a
 CC beta-adrenergic agonist. The composition is useful for preventing or
 CC treating a respiratory, lung or malignant disease. The administered
 CC composition comprises oligo and is administered to reduce the production
 CC or availability, or to increase the degradation of the target mRNA or to
 CC reduce the amount of target polypeptide present in the lungs. The
 CC pulmonary obstruction, and/or bronchoconstriction and/or lung
 CC inflammation, allergies and/or surfactant hypoproduction are associated
 CC with a disease or condition such as pulmonary vasoconstriction,
 CC inflammation, allergies, asthma, impeded respiration, respiratory
 CC distress syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary
 CC hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary
 CC transplantation rejection, pulmonary infections, bronchitis or cancer.
 CC The reduced adenosine content of the anti-sense oligos corresponding to
 CC thymidines present in the target RNA serves to prevent the breakdown of
 CC the oligonucleotides into products that free adenosine into the system
 CC e.g., lung, brain, heart, kidney, etc, tissue environment and thereby, to
 CC prevent any unwanted effects due to it

XX Sequence 20 BP; 1 A; 2 C; 8 G; 9 T; 0 U; 0 Other;

XX Query Match 0.4%; Score 16.8; DB 1; Length 20;
 XX Best Local Similarity 90.0%; Pred. No. 1e+03;
 XX Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2325 GTGTGTGTCGCTGTGTGT 2344
 DB 1 GTATGTGTGCTGTGTGT 20

RESULT 801
 ADH70402
 ID ADH70402 standard; DNA; 20 BP.
 XX ADH70402;
 XX AC
 XX DT 25-MAR-2004 (first entry)
 XX Human Vbeta gene repeat sequence #192.

XX human; T-cell associated disease; Vbeta; autoimmune disease;
 KW degenerative nervous system disease; graft versus host disease;
 KW hypersensitivity disease; infectious disease; neoplastic disease;
 KW Addison's disease; atrophic gastritis;
 KW degenerative nervous system disease; multiple sclerosis;
 KW Alzheimer's disease; hypersensitivity disease; type I hypersensitivity;
 KW allergy; type II hypersensitivity; Goodpasture's syndrome;
 KW type IV hypersensitivity; leprosy; infectious disease; viral infection;
 KW HIV; fungal infection; Candida; parasitic infection; schistosoma;
 KW filaria; bacterial infection; Mycobacterium; neoplastic disease;
 KW lymphoproliferative disease; leukaemia; lymphoma; cancer; brain cancer;
 KW breast cancer; ds.

OS Homo sapiens.
 XX US2002150891-A1.
 PN 17-OCT-2002.
 XX

XX 05-MAR-1999; 99US-00263959.
 XX 19-SEP-1994; 94US-00309335.
 PR 19-SEP-1995; 95US-00531241.
 XX (HOOD/) HOOD L E.
 PA (ROWE/) ROWEN L.
 XX Hood LE, Rowen L;
 PI WPI; 2004-059052/06.
 XX Kit for diagnosing and treating T-cell associated diseases e.g.
 PT autoimmune, degenerative nervous system and infectious disease, comprises
 PT nucleic acid primers specifically priming and allowing amplification of a
 PT Vbeta gene.
 XX Disclosure; SEQ ID NO 596; 164pp; English.

XX The invention relates to a kit for diagnosing and treating T-cell
 CC associated diseases which comprises a panel of nucleic acid primers
 CC specifically priming and allowing amplification of each Vbeta gene,
 CC VbetarNA or cDNA. The kit is useful for diagnosing organ transplant
 CC rejection and diagnosing and treating T-cell associated diseases
 CC including autoimmune diseases, degenerative nervous system diseases,
 CC graft versus host diseases, hypersensitivity diseases, infectious diseases,
 CC and neoplastic diseases. Autoimmune diseases include Addison's disease,
 CC atrophic gastritis. Degenerative nervous system diseases include multiple
 CC sclerosis and Alzheimer's disease. Hypersensitivity diseases include Type
 CC I hypersensitivities such as contact with allergens that lead to
 CC allergies, Type II hypersensitivities such as those present in
 CC Goodpasture's syndrome and Type IV hypersensitivities such as those
 CC manifested in leprosy. Infectious diseases include viral infections
 CC caused by viruses such as HIV, fungal infections such as those caused by
 CC the yeast genus Candida, parasitic infections such as those caused by
 CC schistosomes, filaria and bacterial infections such as those caused by
 CC Mycobacterium. Neoplastic diseases include lymphoproliferative diseases
 CC such as leukaemias, lymphomas and cancers such as cancer of the brain,
 CC breast. The present sequence represents a Vbeta gene repeat sequence.

XX Sequence 20 BP; 8 A; 0 C; 0 G; 12 T; 0 U; 0 Other;

XX Query Match 0.4%; Score 16.8; DB 1; Length 20;
 XX Best Local Similarity 90.0%; Pred. No. 1e+03;
 XX Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 3463 TATATATATCTATATATATA 3482
 DB 1 TATATATATTTATTTATATA 20

RESULT 802
 ADH70402/c
 ID ADH70402 standard; DNA; 20 BP.
 XX ADH70402;
 XX AC
 XX DT 25-MAR-2004 (first entry)
 XX Human Vbeta gene repeat sequence #192.

XX human; T-cell associated disease; Vbeta; autoimmune disease;
 KW degenerative nervous system disease; graft versus host disease;
 KW hypersensitivity disease; infectious disease; neoplastic disease;
 KW Addison's disease; atrophic gastritis;
 KW degenerative nervous system disease; multiple sclerosis;
 KW Alzheimer's disease; hypersensitivity disease; type I hypersensitivity;
 KW allergy; type II hypersensitivity; Goodpasture's syndrome;
 KW type IV hypersensitivity; leprosy; infectious disease; viral infection;
 KW HIV; fungal infection; Candida; parasitic infection; schistosoma;
 KW filaria; bacterial infection; Mycobacterium; neoplastic disease;
 KW lymphoproliferative disease; leukaemia; lymphoma; cancer; brain cancer;

KW airway inflammation; allergy; asthma; impeded respiration;
 KW cystic fibrosis; acute respiratory distress syndrome;
 KW pulmonary hypertension; lung inflammation; bronchitis; oligonucleotide;
 KW ss.
 OS Homo sapiens.
 XX
 XX WO2004011613-A2.
 XX
 XX 05-FEB-2004.
 XX
 XX 25-JUL-2003; 2003WO-US023509.
 XX
 XX 29-JUL-2002; 2002US-0399076P.
 XX
 XX (EPIG-) EPIGENESIS PHARM INC.
 XX
 XX Nyce JW, Tang L, Sandrasagra A, Aguilar D, Miller S;
 PI Shahbuddin S, Lu H, Cong H;
 XX WPI; 2004-203534/19.
 XX
 XX Novel single or multiple target oligonucleotide anti-sense to e.g.
 PT initiation codons and introns of respiratory disease-relevant genes e.g.,
 PT CCR1, RANTES, MCP4, useful for prophylaxis or treating respiratory
 PT disease e.g., asthma.
 XX
 XX Claim 2; SEQ ID NO 1685; 85pp; English.
 XX
 CC The present invention relates to an oligonucleotide anti-sense to e.g.,
 CC initiation codon, coding region with 2-10 nucleotides of 5'-end and 3'-
 CC end of nucleic acid target comprising gene(s) chosen from e.g.
 CC interleukin (IL)-4 receptor, IL-5 receptor or salts of the
 CC oligonucleotide and optionally surfactant operatively linked to the
 CC oligonucleotide. The method is useful for preventing or treating a
 CC respiratory or lung disease, which involves administering to the airways
 CC of a subject an effective amount of an inhibitor. The oligonucleotide is
 CC useful for production of a medicament for the prevention and/or treatment
 CC of a respiratory or lung disease. The respiratory or lung disease is
 CC chosen from airway inflammation, allergy(ies), asthma, impeded
 CC respiration, cystic fibrosis (CF), chronic obstructive pulmonary diseases
 CC (COPD), allergic rhinitis (AR), acute respiratory distress syndrome
 CC (ARDS), pulmonary hypertension, lung inflammation, bronchitis, airway
 CC obstruction. The present sequence represents an oligonucleotide of the
 CC invention.
 XX
 XX Sequence 20 BP; 3 A; 7 C; 5 G; 5 T; 0 U; 0 Other;
 SQ
 Query Match 0.4%; Score 16.8; DB 1; Length 20;
 Best Local Similarity 90.0%; Pred. No. 1e+03;
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 1886 TCACGCTGCTGAGGAGGCG 1905
 DB 20 TCAAGCTGCTGCAGGAGGAC 1
 RESULT 805
 ADM15201/C
 ID ADM15201 standard; DNA; 20 BP.
 XX
 XX ADM15201;
 AC
 XX
 XX 01-JUL-2004 (first entry)
 DT
 XX Human mPGES-1 chimeric antisense oligonucleotide SEQ ID NO:1388.
 DE
 XX chimeric; antisense oligonucleotide; phosphorothioate; human;
 KW microsomal prostaglandin E2 synthase; mPGES-1; mPGES-1 inhibitor;
 KW microsomal prostaglandin E2 synthase inhibitor; cytosolic; antidiabetic;
 KW immunomodulator; cardiant; neuroprotective; antiinflammatory;
 KW neuroprotective; nootropic; antiarthritic; vasotropic; ophthalmological;
 KW immunomodulatory; cardiovascular; gene therapy; inflammation;

KW Alzheimer's disease; arthritis; diabetes; cancer; ischaemia;
 KW reperfusion injury; ophthalmic disorder; immunological disorder;
 KW cardiovascular disorder; neurological disorder; ss.
 XX
 OS Homo sapiens.
 XX Synthetic.
 XX
 XX Key Location/Qualifiers
 FH modified_base 1..20
 FT /*tag= b
 FT /mod_base= OTHER
 FT /note= "phosphorothioate linkages and all cytidine
 FT residues are 5-methylcytidines"
 FT modified_base 1..5
 FT /*tag= a
 FT /mod_base= OTHER
 FT /note= "2'-O-methoxyethyls"
 FT modified_base 16..20
 FT /*tag= c
 FT /mod_base= OTHER
 FT /note= "2'-O-methoxyethyls"
 XX
 XX WO2004028458-A2.
 XX
 XX 08-APR-2004.
 PD
 XX 25-SEP-2003; 2003WO-US030374.
 PF
 XX 25-SEP-2002; 2002US-0413549P.
 PR
 XX (PHAA) PHARMACIA CORP.
 XX
 XX Gierse JK;
 XX WPI; 2004-305094/28.
 XX
 XX New antisense compound, having a sequence targeted to a nucleic acid
 PT encoding mPGES-1, useful for preparing a composition for treating e.g.,
 PT inflammation, Alzheimer's disease, arthritis, diabetes, cancer or
 PT ischemia.
 PT
 XX Claim 4; SEQ ID NO 1388; 132pp; English.
 PS
 CC The present sequence represents a chimeric antisense oligonucleotide
 CC targeted to human microsomal prostaglandin E2 synthase (mPGES-1). The
 CC human mPGES-1 gene is located on chromosome 9, more specifically to
 CC 9q34.3. The present invention also describes: (1) antisense compounds,
 CC having a sequence comprising 8-30 bp targeted to a nucleic acid encoding
 CC mPGES-1, which specifically hybridise with the nucleic acid mPGES-1 and
 CC inhibits its expression; (2) a method of inhibiting the expression of
 CC mPGES-1 in cells or tissues; and (3) a method of treating an animal
 CC having a disease or condition associated with mPGES-1. mPGES-1 chimeric
 CC antisense oligonucleotides and antisense compounds have cytostatic,
 CC antidiabetic, immunomodulator, cardiant, neuroprotective,
 CC antiinflammatory, neuroprotective, nootropic, antiarthritic, vasotropic,
 CC ophthalmological, immunomodulatory and cardiovascular activities, and can
 CC be used as mPGES-1 inhibitors and in gene therapy. The antisense compound
 CC can be used for preparing a composition for treating a disease or
 CC condition associated with mPGES-1 e.g., inflammation, Alzheimer's
 CC disease, arthritis, diabetes, cancer, ischaemia or reperfusion injury, or
 CC ophthalmic, immunological, cardiovascular or neurological disorder.
 XX
 XX Sequence 20 BP; 8 A; 9 C; 3 G; 0 T; 0 U; 0 Other;
 SQ
 Query Match 0.4%; Score 16.8; DB 1; Length 20;
 Best Local Similarity 90.0%; Pred. No. 1e+03;
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 2323 GTGTGTGTGTGTGTGTGTGTGTGTGT 2342
 DB 20 GTGTGTGTGTGTGTGTGTGTGTGTGT 1

RESULT 806
ADM15209/c
ID ADM15209 standard; DNA; 20 BP.
XX
AC ADM15209;
XX
DT 01-JUL-2004 (first entry)
XX
DE Human mPGES-1 chimeric antisense oligonucleotide SEQ ID NO:1396.
XX
KW chimeric; antisense oligonucleotide; phosphorothioate; human;
KW microsomal prostaglandin E2 synthase; mPGES-1; mPGES-1 inhibitor;
KW microsomal prostaglandin E2 synthase inhibitor; cytosolic; antidiabetic;
KW immunomodulator; cardiant; neuroprotective; antiinflammatory;
KW neuroprotective; nootropic; antiarthritic; vasotropic; ophthalmological;
KW immunomodulatory; cardiovascular; gene therapy; inflammation;
KW Alzheimer's disease; arthritis; diabetes; cancer; ischaemia;
KW reperfusion injury; ophthalmic disorder; immunological disorder;
KW cardiovascular disorder; neurological disorder; ss.
XX
OS Homo sapiens.
OS Synthetic.
XX
FH Key Location/Qualifiers
FT modified_base 1..20
FT /tag= b
FT /mod_base= OTHER
FT /note= "phosphorothioate linkages and all cytidine
FT residues are 5-methylcytidines"
FT modified_base 1..5
FT /tag= a
FT /mod_base= OTHER
FT /note= "2'-O-methoxyethyls"
FT modified_base 16..20
FT /tag= c
FT /mod_base= OTHER
FT /note= "2'-O-methoxyethyls"
XX
PN WO2004028458-A2.
XX
PD 08-APR-2004.
XX
XX
XX 25-SEP-2003; 2003WO-US030374.
XX
XX 25-SEP-2002; 2002US-0413549P.
XX
XX (PHAA) PHARMACIA CORP.
XX
XX Gierse JK;
XX
XX WPI; 2004-305094/28.
XX
XX New antisense compound, having a sequence targeted to a nucleic acid
XX encoding mPGES-1, useful for preparing a composition for treating e.g.,
XX inflammation, Alzheimer's disease, arthritis, diabetes, cancer or
XX ischemia.
XX
XX Claim 4; SEQ ID NO 1396; 132pp; English.
XX
XX The present sequence represents a chimeric antisense oligonucleotide
XX targeted to human microsomal prostaglandin E2 synthase (mPGES-1). The
XX human mPGES-1 gene is located on chromosome 9, more specifically to
XX 9q34.3. The present invention also describes: (1) antisense compounds,
XX having a sequence comprising 8-30 bp targeted to a nucleic acid encoding
XX mPGES-1, which specifically hybridise with the nucleic acid mPGES-1 and
XX inhibits its expression; (2) a method of inhibiting the expression of
XX mPGES-1 in cells or tissues; and (3) a method of treating an animal
XX having a disease or condition associated with mPGES-1. mPGES-1 chimeric
XX antisense oligonucleotides and antisense compounds have cytosolic,
XX antiinflammatory, neuroprotective, cardiant, neuroprotective,
XX antidiabetic, immunomodulatory and antisense compounds have vasotropic,
XX ophthalmological, immunomodulatory and cardiovascular activities, and can
XX be used as mPGES-1 inhibitors and in gene therapy. The antisense compound

CC can be used for preparing a composition for treating a disease or
CC condition associated with mPGES-1 e.g., inflammation, Alzheimer's
CC disease, arthritis, diabetes, cancer, ischaemia or reperfusion injury, or
CC ophthalmic, immunological, cardiovascular or neurological disorder.
XX
SQ Sequence 20 BP; 8 A; 9 C; 3 G; 0 T; 0 U; 0 Other;
Query Match 0.4%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 2322 TGTGTGTGTGTCGCGTGTGTG 2341
Db 20 TGTGTGTGTGTCGCGTGTGTG 1
RESULT 807
ADM14960/c
ID ADM14960 standard; DNA; 20 BP.
XX
AC ADM14960;
XX
DT 01-JUL-2004 (first entry)
XX
DE Human mPGES-1 chimeric antisense oligonucleotide SEQ ID NO:1147.
XX
KW chimeric; antisense oligonucleotide; phosphorothioate; human;
KW microsomal prostaglandin E2 synthase; mPGES-1; mPGES-1 inhibitor;
KW microsomal prostaglandin E2 synthase inhibitor; cytosolic; antidiabetic;
KW immunomodulator; cardiant; neuroprotective; antiinflammatory;
KW neuroprotective; nootropic; antiarthritic; vasotropic; ophthalmological;
KW immunomodulatory; cardiovascular; gene therapy; inflammation;
KW Alzheimer's disease; arthritis; diabetes; cancer; ischaemia;
KW reperfusion injury; ophthalmic disorder; immunological disorder;
KW cardiovascular disorder; neurological disorder; ss.
XX
OS Homo sapiens.
OS Synthetic.
XX
FH Key Location/Qualifiers
FT modified_base 1..20
FT /tag= b
FT /mod_base= OTHER
FT /note= "phosphorothioate linkages and all cytidine
FT residues are 5-methylcytidines"
FT modified_base 1..5
FT /tag= a
FT /mod_base= OTHER
FT /note= "2'-O-methoxyethyls"
FT modified_base 16..20
FT /tag= c
FT /mod_base= OTHER
FT /note= "2'-O-methoxyethyls"
XX
PN WO2004028458-A2.
XX
PD 08-APR-2004.
XX
XX 25-SEP-2003; 2003WO-US030374.
XX
XX 25-SEP-2002; 2002US-0413549P.
XX
XX (PHAA) PHARMACIA CORP.
XX
XX Gierse JK;
XX
XX WPI; 2004-305094/28.
XX
XX New antisense compound, having a sequence targeted to a nucleic acid
XX encoding mPGES-1, useful for preparing a composition for treating e.g.,
XX inflammation, Alzheimer's disease, arthritis, diabetes, cancer or
XX ischemia.
XX

XX 25-JUL-2003; 2003US-00627930.
 XX 23-APR-2002; 2002WO-US0113135.
 PR 23-APR-2002; 2002WO-US0113143.
 XX (NYCE/) NYCE J W.
 PA (SAND/) SANDRASAGRA A.
 PA (TANG/) TANG L.
 PA (AGUI/) AGUILAR D.
 PA (MILL/) MILLER S.
 PA (SHAH/) SHAHABUDDIN S.
 PA (LUHH/) LU H.
 PA (CONG/) CONG H.
 XX Nyce JW, Sandrasagra A, Tang L, Aguilar D, Miller S;
 PI Shahabuddin S, Lu H, Cong H;
 XX WPI; 2004-293804/27.
 XX Novel single or multiple target oligonucleotide anti-sense to e.g.
 PT initiation codon, intron of respiratory disease-relevant gene e.g. CCR1,
 PT RANTES, MCP4, useful for prophylaxis or treating respiratory disease e.g.
 PT asthma.
 XX Claim 2; SEQ ID NO 1685; 174pp; English.
 PS The invention relates to oligonucleotides anti-sense to an initiation
 CC codon, coding region, 5' or 3' intron-exon junction, intron or region
 CC with 2-10 nucleotides of the 5'-end or 3'-end of a nucleic acid target
 CC chosen from a gene encoding interleukin (IL)-4 receptor, interleukin (IL)
 CC -5 receptor, CCR1, CCR3, Eotaxin-1, RANTES, MCP4, CD23, ICAM, VCAM,
 CC tryptase a, tryptase b, PDE4 A, PDE4 B, PDE4 C or PDE4 D. The invention
 CC also relates to a method of screening a candidate compound that binds to
 CC one or more nucleic acid target(s) or expressed product(s), for the
 CC prevention and/or treatment of a respiratory or lung disease. The
 CC oligonucleotides are useful for reducing or inhibiting expression of a
 CC gene or mRNA encoding interleukin-4 receptor, interleukin-5 receptor,
 CC CCR1, CCR3, Eotaxin-1, RANTES, MCP4, CD23, ICAM, VCAM, tryptase a,
 CC tryptase b, PDE4 A, PDE4 B, PDE4 C, or PDE4 D. The oligonucleotides are
 CC useful for preventing or treating a respiratory or lung disease. The
 CC respiratory or lung disease is associated with hyper-responsiveness to
 CC and/or increased levels of, adenosine and/or levels of adenosine A
 CC receptor(s), and/or asthma and/or lung allergies associated with
 CC inflammation or an inflammatory disease. The respiratory or lung disease
 CC is chosen from airway inflammation, allergy, asthma, impeded respiration,
 CC cystic fibrosis (CF), chronic obstructive pulmonary disease (COPD),
 CC allergic rhinitis, acute respiratory distress syndrome, pulmonary
 CC hypertension, lung inflammation, bronchitis, airway obstruction or
 CC bronchoconstriction. This sequence represents an oligonucleotide of the
 CC invention.
 XX Sequence 20 BP; 3 A; 7 C; 5 G; 5 T; 0 U; 0 Other;
 SQ Query Match 0.4%; Score 16.8; DB 1; Length 20;
 Best Local Similarity 90.0%; Pred. No. 1e+03; 2; Indels 0; Gaps 0;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1886 TCAGCTGCTGAGGAGGC 1905
 DB 20 TCAAGCTGCTGAGGAGGC 1
 RESULT 810
 ADP44427
 ID ADP44427 standard; DNA; 20 BP.
 XX AC ADP44427;
 XX DT 09-SEP-2004 (first entry)
 XX DE Human ABCC5 DNA antisense oligonucleotide #43.
 XX

KW Human; ABCC5; ss; antisense oligonucleotide; phosphorothioate linkage;
 KW 2'-O-methoxyethyl sugar moiety; 5-methylcytosine;
 KW hyperproliferative disorder; cancer; cytostatic.
 OS Homo sapiens.
 XX US2004115649-A1.
 PN 17-JUN-2004.
 XX 12-DEC-2002; 2002US-00319893.
 PF 12-DEC-2002; 2002US-00319893.
 PR 12-DEC-2002; 2002US-00319893.
 XX (ISIS-) ISIS PHARM INC.
 PA Dobie KW;
 PI WPI; 2004-449386/42.
 XX New oligonucleotide compound that inhibits expression of ABCC5, useful
 PT for preparing a composition for treating hyperproliferative disorder,
 PT e.g., cancer.
 XX Example 15; SEQ ID NO 53; 57pp; English.
 PS The invention relates to a compound targeted to a nucleic acid molecule
 CC encoding the human ABCC5 polypeptide. The compound is an antisense
 CC oligonucleotide that specifically hybridizes with the nucleic acid and
 CC inhibits expression of the polypeptide. The antisense oligonucleotide
 CC comprises at least one modified internucleoside linkage i.e. a
 CC phosphorothioate linkage, at least one modified sugar moiety, preferably
 CC a 2'-O-methoxyethyl sugar moiety, or at least one modified nucleobase
 CC comprising a 5-methylcytosine. The antisense compounds are useful for
 CC modulating the expression of the human ABCC5 polypeptide and in
 CC preparation of a composition for treating hyperproliferative disorders,
 CC e.g. cancer. This sequence represents an antisense oligonucleotide
 CC targeted to DNA encoding the human ABCC5 polypeptide of the invention.
 XX Sequence 20 BP; 3 A; 9 C; 1 G; 7 T; 0 U; 0 Other;
 SQ Query Match 0.4%; Score 16.8; DB 1; Length 20;
 Best Local Similarity 90.0%; Pred. No. 1e+03; 2; Indels 0; Gaps 0;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 2691 TTTCACACTCCACCTGC 2710
 DB 1 TTTCACACTCCACCTGC 20
 RESULT 811
 ADP44502/c
 ID ADP44502 standard; DNA; 20 BP.
 XX AC ADP44502;
 XX DT 09-SEP-2004 (first entry)
 XX DE Human ABCC5 DNA antisense oligonucleotide target region #40.
 XX Human; ABCC5; ss; antisense oligonucleotide; phosphorothioate linkage;
 KW 2'-O-methoxyethyl sugar moiety; 5-methylcytosine;
 KW hyperproliferative disorder; cancer; cytostatic.
 OS Homo sapiens.
 XX US2004115649-A1.
 PN 17-JUN-2004.
 XX 12-DEC-2002; 2002US-00319893.
 PF 12-DEC-2002; 2002US-00319893.
 XX 12-DEC-2002; 2002US-00319893.

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XX PA (ISTS-) ISIS PHARM INC.
XX PI Dobie KW;
XX PI WPI; 2004-449386/42.
XX DR
XX PT New oligonucleotide compound that inhibits expression of ABCG5, useful
XX PT for preparing a composition for treating hyperproliferative disorder,
XX PT e.g., cancer.
XX PS Example 15; SEQ ID NO 128; 57pp; English.
XX PS
XX CC The invention relates to a compound targeted to a nucleic acid molecule
XX CC encoding the human ABCG5 polypeptide. The compound is an antisense
XX CC oligonucleotide that specifically hybridises with the nucleic acid and
XX CC inhibits expression of the polypeptide. The antisense oligonucleotide
XX CC comprises at least one modified internucleoside linkage i.e. a
XX CC phosphorothioate linkage, at least one modified sugar moiety, preferably
XX CC a 2'-O-methoxyethyl sugar moiety, or at least one modified nucleobase
XX CC comprising a 5-methylcytosine. The antisense compounds are useful for
XX CC modulating the expression of the human ABCG5 polypeptide and in
XX CC preparation of a composition for treating hyperproliferative disorders,
XX CC e.g. cancer. This sequence represents a human ABCG5 DNA antisense
XX CC oligonucleotide target region of the invention.
XX SQ
XX Sequence 20 BP; 7 A; 1 C; 9 G; 3 T; 0 U; 0 Other;
XX
XX Query Match 0.4%; Score 16.8; DB 1; Length 20;
XX Best Local Similarity 90.0%; Pred. No. 1e+03;
XX Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
QY 2691 TTTCCCACTTCCCACTGC 2710
DB 20 TTTCCCACTTCCCACTGC 1
XX
RESULT 812
ABS98543
ID ABS98543 standard; DNA; 21 BP.
XX
AC ABS98543;
XX
DT 23-DEC-2002 (first entry)
XX
DE Human acetyl choline muscarinic receptor 3 polymorphic sequence #9.
XX
KW Human; db; cytochrome P450 A1; CYP450A1; UGT2B4; MDR1;
KW cytochrome P450 A2; CYP450A2; cytochrome P450 02E; CYP45002E1; LTP;
KW adrenergic receptor beta1; ADRB1; aryl hydrocarbon; AHR; MRP3; NR1I2;
KW aryl hydrocarbon receptor nuclear translocator; ARNT; cathepsin S; CTSS;
KW cyclooxygenase 2; COX2; diazepam binding inhibitor; DBI; haematological;
KW epoxide hydroxylase 2; EPXH2; 5-lipoxygenase activating protein; FLAP;
KW glutathione-S-transferase 12; GST12; histamine-N-methyl transferase;
KW HNMT; kallikrein 2; KLU2; nicotinamide-N-methyl transferase; NNMT;
KW NADPH quinone oxidoreductase 2; NQO2; sulfotransferase thermolabile; STM;
KW UDP-glucuronosyl transferase 2B4; UDP-glucuronosyl transferase 2B7;
KW UGT2B7; UDP-glucuronosyl transferase; UGT2B15; urokinase receptor; UPA;
KW multidrug resistance 1; lactotransferrin; orphan nuclear receptor;
KW multidrug resistance associated protein 3; cancer; prostate;
KW acetylcholine muscarinic receptor; CHMR1; CHMR2; CHMR3; CHMR4; CHMR5;
KW altered drug metabolism; cardiovascular function; colorectal tumour;
KW central nervous system; pulmonary; immunological; SNP;
KW single nucleotide polymorphism.
XX
OS Homo sapiens.
XX
PN WO200257410-A2.
XX
XX 25-JUL-2002.
XX
XX 28-NOV-2001; 2001WO-US044838.
XX

```

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PR 28-NOV-2000; 2000US-00724389.
XX (DNAS-) DNA SCI LAB INC.
XX PI Guida M, Hall J;
XX PI WPI; 2002-698522/75.
XX DR
XX PT Isolated nucleic acid molecules having polymorphisms in known human genes
XX PT e.g. cytochrome P450 and cathepsin S useful as genetic linkage markers
XX PT for locating, identifying and characterizing the genes responsible for
XX PT disorder-related traits.
XX PS Example 28; Page 159; 714pp; English.
XX
XX This invention relates to the sequence of an isolated nucleic acid
XX molecule comprising at least one base variation from that of a known
XX human cytochrome P450 A1 (CYP450A1), cytochrome P450 A2 (CYP450A2),
XX cytochrome P450 02E1 (CYP45002E1), adrenergic receptor beta1 (ADRB1),
XX aryl hydrocarbon (AHR), aryl hydrocarbon receptor nuclear translocator
XX (ARNT), cathepsin S (CTSS), cyclooxygenase 2 (COX2), diazepam binding
XX inhibitor (DBI), epoxide hydroxylase 2 (EPXH2), 5-lipoxygenase activating
XX protein (FLAP), glutathione-S-transferase 12 (GST12), histamine-N-methyl
XX transferase (HNMT), kallikrein 2 (KLU2), nicotinamide-N-methyl
XX transferase (NNMT), NADPH quinone oxidoreductase 2 (NQO2),
XX sulfotransferase thermolabile (STM), UDP-glucuronosyl transferase 2B4
XX (UGT2B4), UDP-glucuronosyl transferase 2B7 (UGT2B7), UDP-glucuronosyl
XX transferase (UGT2B15), urokinase receptor (UPA), multidrug resistance 1
XX (MDR1), lactotransferrin (LTF), multidrug resistance associated protein 3
XX (MRP3), orphan nuclear receptor (NR1I2), or acetylcholine muscarinic
XX receptor 1, 2, 3, 4, or 5 (CHMR1, CHMR2, CHMR3, CHMR4 or CHMR5) sequence.
XX The polymorphisms in the human genes cited in the invention are useful as
XX genetic linkage markers for locating and characterising the genes that
XX are responsible for specific traits within the genome and eventually
XX identifying the genes responsible for a variety of disorder-related
XX traits as a result of their e.g., overexpression, constitutive
XX expression, mutation or underexpression, which may be used in diagnosing
XX and/or treating the disorders. The nucleic acid molecules comprising the
XX polymorphic sequences contained in CYP450A1, CYP450A2, CYP4502E1,
XX ARNT, EPXH2, GST12, NNMT, NQO2, NR1I2, STM, UGT2B4, UGT2B7, UGT2B15, AHR,
XX MDR1 and/or MDR3 are useful for screening individuals for altered drug
XX metabolism. The polymorphic sequences contained in CYP450A1, CYP450A2,
XX AHR, MDR1 and/or MDR3 may also be used to screen individuals for
XX susceptibility to cancer. Polymorphic sequences in ADRB1 or CHMR2 are
XX used to screen for altered cardiovascular function, in COX2 for altered
XX susceptibility to colorectal tumours, in DBI or CHMR1 for altered central
XX nervous system function, in FLAP and HNMT for altered pulmonary,
XX immunological or haematological function, in KLU2 for altered serine
XX protease activity in the prostate, in LTF for altered immunological or
XX haematological function, in CHMR3, CHMR4 or CHMR5 for altered central and
XX peripheral nervous system function. The present sequence represents a
XX polymorphic DNA sequence of the invention
XX
XX Sequence 21 BP; 9 A; 0 C; 2 G; 10 T; 0 U; 0 Other;
XX
XX Query Match 0.4%; Score 16.8; DB 1; Length 21;
XX Best Local Similarity 90.0%; Pred. No. 1.1e+03;
XX Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
QY 3463 TATATATCTATATATATA 3482
DB 2 TATATATGTATATATATA 21
XX
RESULT 813
AAQ20038/c
ID AAQ20038 standard; DNA; 21 BP.
XX
XX AAQ20038;
XX
XX 01-APR-1992 (first entry)
XX
XX Cross-linking oligomer 220 for targeting human TNF.
XX

```

XX deoxyribonucleic acid; major groove; ethanoino group;
KW aziridinylcytosine; cross-linking group; tumour necrosis factor; ss.
XX Synthetic.

XX
FH Key Location/Qualifiers
FT modified_base 1
FT /tag= a
FT /mod_base= OTHER
FT modified_base 2
FT /tag= b
FT /mod_base= OTHER
FT modified_base 3
FT /tag= c
FT /mod_base= OTHER
FT modified_base 4
FT /tag= d
FT /mod_base= OTHER
FT modified_base 7
FT /tag= e
FT /mod_base= OTHER
FT modified_base 9
FT /tag= f
FT /mod_base= OTHER
FT modified_base 11
FT /tag= g
FT /mod_base= OTHER
FT modified_base 13
FT /tag= h
FT /mod_base= OTHER
FT modified_base 15
FT /tag= i
FT /mod_base= OTHER
FT modified_base 17
FT /tag= j
FT /mod_base= OTHER
FT modified_base 21
FT /tag= k
FT /mod_base= OTHER
FT /mod_base= "N-methyl-8-oxo-2'-deoxyadenine"

XX WO9118997-A.

XX 12-DEC-1991.

XX 25-MAY-1990; 90US-00529346.

XX 25-MAY-1990; 90US-00529346.

XX 14-JAN-1991; 91US-00640654.

XX (GILE-) GILEAD SCIE INC.

XX Matteucci MD, Krawczyk S;

XX WPI; 1992-007480/01.

XX New sequence-specific non-photo-activated crosslinking agents - bind to
PT the major groove of duplex DNA and are esp. useful for treating latent
PT infections e.g. HIV.

XX Example 4; Page 25; 42pp; English.

XX

CC The sequence is designed to target the Human tumour necrosis factor
CC beginning at nucleotide 1137 and to covalently cross-link to it via the
CC N4N4-ethanocytosine group. See also AAQ20031-Q20037
XX
SQ Sequence 21 BP; 10 A; 1 C; 0 G; 10 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.1e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 3467 TATATCTATATATATAATTT 3486
Db 21 TAAATATATATATAATTT 2

RESULT 814

AAQ30386/c

ID AAQ30386 standard; DNA; 21 BP.

XX

AC AAQ30386;

XX 25-MAR-2003 (revised)

DT 07-DEC-1992 (first entry)

XX

DE Oligomer TNF217 for forming triplex with HUMTNFAA target duplex.

XX Tumour necrosis factor; herpes simplex; AIDS; modified; HIV; RSV; HPV;
KW malignancy; hepatitis; inflammation; ss.
XX Synthetic.

OS

XX

XX

FH Key Location/Qualifiers

FT modified_base 1

FT /tag= a

FT /mod_base= OTHER

FT /note= "OTHER= N6 methyl-8-oxo-2' deoxyadenine"

FT modified_base 2

FT /tag= b

FT /mod_base= OTHER

FT /note= "OTHER= N6 methyl-8-oxo-2' deoxyadenine"

FT modified_base 3

FT /tag= c

FT /mod_base= OTHER

FT /note= "OTHER= N6 methyl-8-oxo-2' deoxyadenine"

FT modified_base 4

FT /tag= d

FT /mod_base= OTHER

FT /note= "OTHER= N6 methyl-8-oxo-2' deoxyadenine"

FT modified_base 7

FT /tag= e

FT /mod_base= OTHER

FT /note= "OTHER= N6 methyl-8-oxo-2' deoxyadenine"

FT modified_base 9

FT /tag= f

FT /mod_base= OTHER

FT /note= "OTHER= N6 methyl-8-oxo-2' deoxyadenine"

FT modified_base 11

FT /tag= g

FT /mod_base= OTHER

FT /note= "OTHER= N6 methyl-8-oxo-2' deoxyadenine"

FT modified_base 13

FT /tag= h

FT /mod_base= OTHER

FT /note= "OTHER= N6 methyl-8-oxo-2' deoxyadenine"

FT modified_base 15

FT /tag= i

FT /mod_base= OTHER

FT /note= "OTHER= N6 methyl-8-oxo-2' deoxyadenine"

FT modified_base 17

FT /tag= j

FT /mod_base= OTHER

FT /note= "OTHER= N6 methyl-8-oxo-2' deoxyadenine"

FT modified_base 21


```

FT FT /*tag= k
FT FT /mod_base= OTHER
FT FT /note= "OTHER= N6 methyl-8-oxo-2' deoxyadenine"
XX PN
XX PD W09209705-A1.
XX PD 11-JUN-1992.
XX XX
XX PF 25-NOV-1991; 91WO-US008811.
XX PR 23-NOV-1990; 90US-00617907.
XX PR 18-JAN-1991; 91US-00643382.
XX PR 08-APR-1991; 91US-00683420.
XX PR 17-APR-1991; 91US-00686544.
XX PR 17-APR-1991; 91US-00686546.
XX PR 17-APR-1991; 91US-00686547.
XX PR 27-SEP-1991; 91US-00766733.
XX XX
XX PA (GILE-) GILEAD SCI INC.
XX PI Froehler B, Krawczyk S, Matteucci MD, Milligan J;
XX PI WPI; 1992-217083/26.
XX DR
XX XX New oligomers contg. modified bases - which form a triplex with G-C
XX FT doublet in a DNA duplex, for treating and diagnosing HIV, hepatitis,
XX PT herpes malignancy and inflammation.
XX XX
XX PS Claim 12; Page 70; 77pp; English.
XX CC
XX CC The synthetic oligomer is capable of forming a triplex at physiological
XX CC pH with a purine rich target sequence by coupling into the major groove
XX CC of the duplex. The specific target sequence of this oligomer is the human
XX CC tumour necrosis factor beginning at nucleotide 1137 contg. a purine rich
XX CC sequence concd. on one strand of the duplex. The oligomer, and others
XX CC like it are useful in diagnosis and therapy of diseases characterised by
XX CC specific DNA duplex targets, e.g. HPV; HER; HIV, hepatitis B, herpes,
XX CC malignant tumours and inflammation. The triple helices form under mild
XX CC conditions thus assays may be carried out without subjecting the test
XX CC specimen to harsh conditions. See also AAQ25452-25501 and AAQ30226-448.
XX CC (Updated on 25-MAR-2003 to correct PN field.)
XX XX
XX SQ Sequence 21 BP; 11 A; 0 C; 0 G; 10 T; 0 U; 0 Other;
XX
XX Query Match 0.4%; Score 16.8; DB 1; Length 21;
XX Best Local Similarity 90.0%; Pred. No. 1.le+03;
XX Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 3467 TATATCTATATATATATTT 3486
Db 21 TAAATATATATATATATTT 2

RESULT 815
AAQ30389/C
ID AAQ30389 standard; DNA; 21 BP.
XX AC
XX AC AAQ30389;
XX XX
XX XX 25-MAR-2003 (revised)
XX DT 07-DEC-1992 (first entry)
XX XX
XX DE Oligomer TNF220 for forming triplex with HUMTNFAA target duplex.
XX XX
XX XX Tumour necrosis factor; herpes simplex; AIDS; modified; HIV; RSV; HPV;
XX KW malignancy; hepatitis; inflammation; ss.
XX OS Synthetic.
XX XX
XX FH Key Location/Qualifiers
XX FT modified_base 1
XX FT /*tag= a
XX FT /mod_base= OTHER

```

```

FT modified_base
FT FT /note= "OTHER= N4 N4 ethanocytosine"
FT FT /*tag= b
FT FT /mod_base= OTHER
FT FT /note= "OTHER= N6 methyl-8-oxo-2' deoxyadenine"
FT modified_base
FT FT /*tag= c
FT FT /mod_base= OTHER
FT FT /note= "OTHER= N6 methyl-8-oxo-2' deoxyadenine"
FT modified_base
FT FT /*tag= d
FT FT /mod_base= OTHER
FT FT /note= "OTHER= N6 methyl-8-oxo-2' deoxyadenine"
FT modified_base
FT FT /*tag= e
FT FT /mod_base= OTHER
FT FT /note= "OTHER= N6 methyl-8-oxo-2' deoxyadenine"
FT modified_base
FT FT /*tag= f
FT FT /mod_base= OTHER
FT FT /note= "OTHER= N6 methyl-8-oxo-2' deoxyadenine"
FT modified_base
FT FT /*tag= g
FT FT /mod_base= OTHER
FT FT /note= "OTHER= N6 methyl-8-oxo-2' deoxyadenine"
FT modified_base
FT FT /*tag= h
FT FT /mod_base= OTHER
FT FT /note= "OTHER= N6 methyl-8-oxo-2' deoxyadenine"
FT modified_base
FT FT /*tag= i
FT FT /mod_base= OTHER
FT FT /note= "OTHER= N6 methyl-8-oxo-2' deoxyadenine"
FT modified_base
FT FT /*tag= j
FT FT /mod_base= OTHER
FT FT /note= "OTHER= N6 methyl-8-oxo-2' deoxyadenine"
FT modified_base
FT FT /*tag= k
FT FT /mod_base= OTHER
FT FT /note= "OTHER= N6 methyl-8-oxo-2' deoxyadenine"
XX XX
XX PN W09209705-A1.
XX XX
XX PD 11-JUN-1992.
XX XX
XX PF 25-NOV-1991; 91WO-US008811.
XX XX
XX PR 23-NOV-1990; 90US-00617907.
XX PR 18-JAN-1991; 91US-00643382.
XX PR 08-APR-1991; 91US-00683420.
XX PR 17-APR-1991; 91US-00686544.
XX PR 17-APR-1991; 91US-00686546.
XX PR 17-APR-1991; 91US-00686547.
XX PR 27-SEP-1991; 91US-00766733.
XX XX
XX PA (GILE-) GILEAD SCI INC.
XX XX
XX PI Froehler B, Krawczyk S, Matteucci MD, Milligan J;
XX XX WPI; 1992-217083/26.
XX DR
XX XX New oligomers contg. modified bases - which form a triplex with G-C
XX FT doublet in a DNA duplex, for treating and diagnosing HIV, hepatitis,
XX PT herpes malignancy and inflammation.
XX XX
XX PS Claim 12; Page 70; 77pp; English.
XX XX
XX CC The synthetic oligomer is capable of forming a triplex at physiological
XX CC pH with a purine rich target sequence by coupling into the major groove
XX CC of the duplex. The specific target sequence of this oligomer is the human
XX CC tumour necrosis factor beginning at nucleotide 1137 contg. a purine rich
XX CC sequence concd. on one strand of the duplex. The oligomer, and others
XX CC like it are useful in diagnosis and therapy of diseases characterised by
XX CC specific DNA duplex targets, e.g. HPV; HER; HIV, hepatitis B, herpes,
XX CC malignant tumours and inflammation. The triple helices form under mild
XX CC conditions thus assays may be carried out without subjecting the test
XX CC specimen to harsh conditions. See also AAQ25452-25501 and AAQ30226-448.
XX CC (Updated on 25-MAR-2003 to correct PN field.)
XX XX

```


XX DE HSV replication inhibiting oligomer, ISIS no 4560.

XX KW Inhibition; replication; herpes simplex virus; HSV; HIV;

XX KW human cytomegalovirus; influenza virus; inflammation;

XX KW neurological disorders; phospholipase A2 activity; hyperproliferation;

XX KW malignancy; cardiovascular disease; snake bite; malignancy;

XX KW telomere length; retard; aging; ss.

OS OS Synthetic.

XX FH Key Location/Qualifiers

XX FT misc_feature 1..21

XX FT /tag= a

XX FT /notes= "Phosphorothionate intersugar linkages"

XX PN WO9408053-A1.

XX PD 14-APR-1994.

XX PF 29-SEP-1993; 93WO-US009297.

XX PF 29-SEP-1992; 92US-00954185.

XX PA (ISIS-) ISIS PHARM INC.

XX PI Hanecak RC, Anderson KP, Bennett CF, Chiang M, Brown-Driver VL;

XX PI Ecker DJ, Vickers TA, Wyatt JR, Imbach JL;

XX DR WPI; 1994-135613/16.

XX PT New modified oligo-nucleotide contg guanine quartet - inhibits activity

XX PT of viruses, e.g. HIV, and phospholipase A2 and modulates telomere length

XX PT of chromosomes.

XX PS Claim 5; Page 19; 144pp; English.

XX CC The sequences given in AAQ61825-50 and AAQ61886-906 are oligonucleotides

XX CC which contain a G4 or two G3 stretches and which may be used for

XX CC inhibiting replication of herpes simplex virus (HSV). Oligonucleotides

XX CC such as these may also be used for inhibiting activity of HIV, human

XX CC cytomegalovirus or influenza virus, or for treating inflammatory and

XX CC neurological disorders caused by phospholipase A2 activity in cases of

XX CC hyperproliferation, malignancy, cardiovascular disease and snake bite.

XX CC They may also be used for inhibiting division of malignant cells by

XX CC modulating telomere length, which may also retard aging. (Updated on 25-

XX CC MAR-2003 to correct PN field.)

XX SQ Sequence 21 BP; 0 A; 4 C; 17 G; 0 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 21;

Best Local Similarity 90.0%; Pred. No. 1.1e+03;

Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2920 GGGCGGGCGCTGGGGGGCG 2939

Db 2 GGGCGGGCGGGCGGGCG 21

RESULT 819

AAQ97967

ID AAQ97967 standard; DNA; 21 BP.

XX AC AAQ97967;

XX DT 25-MAR-2003 (revised)

XX DT 19-OCT-1995 (first entry)

XX DE Peptide nucleic acid oligomer targeting HIV gene.

XX KW Peptide nucleic acid; PNA; HIV; human immunodeficiency virus; AIDS;

XX KW antiviral; antisense; triple helix; ss.

OS OS Synthetic.

XX FH Key Location/Qualifiers

XX FT misc_feature 1..21

XX FT /tag= a

XX FT /note= "at least one (and preferably all) of the backbone

XX FT subunits are composed of N-acetyl N-(2-aminoethyl)glycine

XX FT peptide residues, the nucleobase being attached

XX FT covalently to the acetyl group and the peptide linkage

XX FT being formed by condensation of the glycine carboxy group

XX FT of one residue with the amino group of the 2-aminoethyl

XX FT moiety in the next residue"

XX PN WO9504068-A1.

XX PD 09-FEB-1995.

XX PF 28-JUL-1994; 94WO-US008517.

XX PF 29-JUL-1993; 93US-00099718.

XX PR (ISIS-) ISIS PHARM INC.

XX PA Ecker DJ;

XX PI WPI; 1995-082179/11.

XX PT Oligomer hybridisable to HIV sequence and contg. peptide nucleic acid

XX PT subunit - binds in complementary manner to DNA and RNA, and useful for

XX PT modulating HIV viral activity, e.g. in treating AIDS.

XX PS Claim 2; Page 176; 186pp; English.

XX CC New peptide nucleic acid (PNA) oligomers are provided which (a) consist

XX CC of naturally occurring nucleobases covalently bound to a polyamide

XX CC backbone and (b) hybridise to the translation initiation AUG region, 5'

XX CC untranslated region (5' UTR), 3' untranslated region (3' UTR), splice

XX CC junctions or coding sequence of a human immunodeficiency virus gene

XX CC chosen from env, gag, pol, rev and tat. The PNAs can be used to target

XX CC RNA and single stranded DNA (ssDNA) to produce antisense-type gene

XX CC regulation moieties. They have utility as gene-targeted drugs for

XX CC modulating HIV processes. Hence they can be used to treat AIDS and other

XX CC viral infections. They are also useful in diagnostic applications and as

XX CC research tools. PNA oligomers have high affinity for complementary single

XX CC stranded DNA. They are also able to form triple helices in which a first

XX CC PNA strand binds with RNA or ssDNA and a second PNA strand binds with the

XX CC resulting double helix or with the first PNA strand. The PNAs possess no

XX CC significant charge and are water soluble, which facilitates cellular

XX CC uptake. Further, since they contain amides of non-biological amino acids,

XX CC they are biostable and resistant to enzymatic degradation by proteases.

XX CC The present sequence is a specifically claimed PNA sequence (represented

XX CC by the sequence of nucleobases) targeting HIV genes. (Updated on 25-MAR-

XX CC 2003 to correct PN field.)

XX SQ Sequence 21 BP; 0 A; 4 C; 17 G; 0 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 21;

Best Local Similarity 90.0%; Pred. No. 1.1e+03;

Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2920 GGGCGGGCGCTGGGGGGCG 2939

Db 2 GGGCGGGCGGGCGGGCG 21

RESULT 820

AAZ26593

ID AAZ26593 standard; DNA; 21 BP.

XX AC AAZ26593;

XX DT 30-NOV-1999 (first entry)

XX DT


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PN WO200272882-A2.
XX
XX
XX 13-SEP-2002.
XX
XX 13-MAR-2002; 2002WO-EP002780.
XX
XX 13-MAR-2001; 2001DE-01011925.
XX
XX (OGHA-) OGHAM GMBH.
XX
XX Cullen P, Seedorf U;
XX
XX WPI; 2002-723374/78.
XX
XX Determining genetic risk of arteriosclerosis, for clinical diagnosis,
PT comprises hybridizing patient nucleic acid with an array of probes
PT derived from risk-associated reference genes and their mutations.
XX
XX Example 1; Page 126; 146pp; German.
XX
XX This invention describes a novel method for determining the genetic risk
CC of arteriosclerosis both for clinical diagnosis and for population
CC studies. The method comprises: (i) selecting risk-associated reference
CC nucleic acid sequences, including their functionally characterizing
CC mutations; (ii) applying probes from these sequences, or their
CC complements, to a carrier; (iii) hybridising the probes with a nucleic
CC acid from (or synthesised from) a patient sample; and (iv) detecting and
CC evaluating the hybridisation pattern. The method provides a quick,
CC inexpensive and informative diagnosis, and makes possible a
CC multifactorial analysis for detecting e.g. synergism between different
CC mutations or mutations that when present alone carry no risk but are risk
CC -associated in presence of other mutations. The results may be combined
CC with known risk-assessment methods to provide a more reliable diagnosis,
CC especially important with new therapeutic methods (e.g. gene therapy)
CC that are directed against specific genes. All relevant mutations in a
CC reference sequence can be screened for in a single test and the method is
CC well suited to automation. ABX09147-ABX09676 represent probes used to
CC illustrate the method of the invention
XX
XX Sequence 21 BP; 2 A; 12 C; 7 G; 0 T; 0 U; 0 Other;
SQ
Query Match 0.4%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.1e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 2909 GGCATGGCCCTGGGGGGG 2928
DB 21 GGCTGGCCCTGGGGGGGGC 2
RESULT 823
ADB73476/c
ID ADB73476 standard; DNA; 21 BP.
XX
XX ADB73476;
XX
XX 04-DEC-2003 (first entry)
XX
XX Human B cell receptor fusions PCR primer FRGFR1 exons 12.
XX
XX Human; ss; MLL; cancer; AF-4; CDK-6; SEPTIN6; ALL;
XX acute lymphoblastic leukaemia; AML; acute myeloid leukaemia;
XX chromosomal break point; chromosome 11q23; ATF; BCR; B cell receptor;
XX primer; PCR.
XX
XX Homo sapiens.
XX
XX US2003096255-A1.
XX
XX 22-MAY-2003.
XX
XX 09-APR-2002; 2002US-00118783.
XX
XX

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PR 19-FEB-1997; 97US-0038624P.
PR 25-AUG-1997; 97US-0056938P.
PR 17-NOV-1997; 97US-0065911P.
PR 19-FEB-1998; 98US-00026033.
XX
XX (FELI/) FELIX C A.
XX (JONE/) JONES D H.
XX (RAPP/) RAPPAPORT E.
XX
XX Felix CA, Jones DH, Rappaport E;
XX
XX WPI; 2003-606415/57.
XX
XX Amplifying an unknown region that flanks a known region of a cancer-
PT associated DNA sequence by subjecting the panhandle structure to
PT extension and to PCR in the presence of a first primer homologous to the
PT second portion.
XX
XX Claim 6; Page 42; 80pp; English.
XX
XX The invention relates to amplifying an unknown region that flanks a known
CC region of a cancer-associated DNA sequence comprising providing a
CC template polynucleotide, ligating a loop-forming oligonucleotide to the
CC 3'-end of the sense strand, annealing the loop-forming oligonucleotide
CC with the first portion to generate a panhandle structure, subjecting the
CC panhandle structure to extension, and subjecting the panhandle structure
CC to PCR in the presence of a first primer homologous to the second
CC portion, where the unknown region is amplified. In the method of
CC amplifying an unknown region that flanks a known region of a cancer-
CC associated DNA sequence, the template polynucleotide comprises a sense
CC strand, comprising the known and unknown regions. The unknown region is
CC nearer the 3'-end of the sense strand than is the known region. The known
CC region comprises a first or second portion. The first portion is
CC nearer the unknown region than is the second portion. The loop-forming
CC oligonucleotide is complementary to the first portion. The third region
CC complementary to the second portion is generated at the free end of the
CC loop-forming oligonucleotide. The cancer-associated DNA sequence
CC comprises ATF1 (not defined) or BCR (B cell receptor). The method is
CC useful for amplifying an unknown region that flanks a known region of a
CC cancer-associated DNA sequence. Also disclosed as new is the use of the
CC method in the analysis of the breakpoint region of the human MLL gene,
CC where the chromosomal breaks results in gene fusions with AF-4, CDK-6 and
CC SEPTIN6 and are associated with ALL and AML (acute lymphoblastic
CC leukaemia and acute myeloid leukaemia). MLL is located on chromosome
CC 11q23. The present sequence is a PCR primer used the method of the
CC invention to isolate the unknown region adjacent to the BCR cancer gene.
XX
XX Sequence 21 BP; 3 A; 5 C; 7 G; 6 T; 0 U; 0 Other;
SQ
Query Match 0.4%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.1e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1531 GAGGAGCAGCTCACCTTCAA 1550
DB 20 GAGGAGCAGCTCTCCTCCAA 1
RESULT 824
ADP29168
ID ADP29168 standard; DNA; 21 BP.
XX
XX ADP29168;
XX
XX 12-AUG-2004 (first entry)
XX
XX Human secreted protein encoding sequence SEQ ID #1166.
XX
XX Cytostatic; Antiinflammatory; Immunosuppressive; Antibacterial; Virucide;
XX cancer; inflammatory; immune; ds; human secreted protein.
XX
XX Homo sapiens.
XX

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PR WO2004035732-A2.
XX PD 29-APR-2004.
XX PF 28-AUG-2003; 2003WO-US026780.
XX PR 29-AUG-2002; 2002US-0406576P.
XX PR 29-AUG-2002; 2002US-0406579P.
XX PR 29-AUG-2002; 2002US-0406585P.
XX PR 29-AUG-2002; 2002US-0406588P.
XX PR 29-AUG-2002; 2002US-0406608P.
XX PR 29-AUG-2002; 2002US-0406611P.
XX PR 29-AUG-2002; 2002US-0406612P.
XX PR 29-AUG-2002; 2002US-0406616P.
XX PR 29-AUG-2002; 2002US-0406640P.
XX PR 29-AUG-2002; 2002US-0406642P.
XX PR 29-AUG-2002; 2002US-0406646P.
XX PR 29-AUG-2002; 2002US-0406653P.
XX PR 29-AUG-2002; 2002US-0406655P.
XX PR 29-AUG-2002; 2002US-0406666P.
XX PR 17-SEP-2002; 2002US-0410946P.
XX PR 17-SEP-2002; 2002US-0410947P.
XX PR 17-SEP-2002; 2002US-0410948P.
XX PR 17-SEP-2002; 2002US-0410949P.
XX PR 17-SEP-2002; 2002US-0410953P.
XX PR 17-SEP-2002; 2002US-0410957P.
XX PR 17-SEP-2002; 2002US-0410958P.
XX PR 17-SEP-2002; 2002US-0410959P.
XX PR 17-SEP-2002; 2002US-0410960P.
XX PR 17-SEP-2002; 2002US-0410961P.
XX PR 17-SEP-2002; 2002US-0410962P.
XX PR 17-SEP-2002; 2002US-0411019P.
XX PR 17-SEP-2002; 2002US-0411022P.
XX PR 17-SEP-2002; 2002US-0411023P.
XX PR 17-SEP-2002; 2002US-0411024P.
XX PR 17-SEP-2002; 2002US-0411032P.
XX PR 17-SEP-2002; 2002US-0411035P.
XX PR 17-SEP-2002; 2002US-0411037P.
XX PR 17-SEP-2002; 2002US-0411041P.
XX PR 17-SEP-2002; 2002US-0411045P.
XX PR 17-SEP-2002; 2002US-0411046P.
XX PR 17-SEP-2002; 2002US-0411048P.
XX PR 17-SEP-2002; 2002US-0411052P.
XX PR 17-SEP-2002; 2002US-0411055P.
XX PR 17-SEP-2002; 2002US-0411073P.
XX PR 17-SEP-2002; 2002US-0411082P.
XX PR 17-SEP-2002; 2002US-0411101P.
XX PR 17-SEP-2002; 2002US-0411111P.
XX PR 18-APR-2003; 2003US-0463700P.
XX PR 18-APR-2003; 2003US-0463708P.
XX PR 18-APR-2003; 2003US-0463716P.
XX PR 18-APR-2003; 2003US-0463732P.
XX PR 02-MAY-2003; 2003US-0467199P.
XX PR 02-MAY-2003; 2003US-0467201P.
XX PR 02-MAY-2003; 2003US-0467203P.
XX PR 02-MAY-2003; 2003US-0467230P.
XX PR 19-MAY-2003; 2003US-0471306P.
XX PR 19-MAY-2003; 2003US-0471356P.
XX PR 22-MAY-2003; 2003US-0472420P.
XX PR 22-MAY-2003; 2003US-0472430P.
XX PR 09-JUN-2003; 2003US-0476609P.
XX PR 09-JUN-2003; 2003US-0476641P.
XX PR 08-JUL-2003; 2003US-0485218P.
XX PR 08-JUL-2003; 2003US-0485223P.
XX PR 08-JUL-2003; 2003US-0485224P.
XX PR 08-JUL-2003; 2003US-0485325P.
XX PR 14-JUL-2003; 2003US-0486446P.
XX PR 14-JUL-2003; 2003US-0486480P.
XX PR 15-JUL-2003; 2003US-0486891P.
XX PR 15-JUL-2003; 2003US-0486960P.
XX PR 08-AUG-2003; 2003US-0493341P.
XX PR 08-AUG-2003; 2003US-0493370P.
XX PR 08-AUG-2003; 2003US-0493573P.

PR 08-AUG-2003; 2003US-0493577P.
XX (FIVE-) FIVE PRIME THERAPEUTICS INC.
XX Williams LT, Chu K, Lee E, Hestir K, Beaurang PA, Behrens D;
XX Halenbeck RF, Huang MM, Kothakota S, Haishan L, Linnemann T;
XX Pierce K, Wang Y, Wong JGP, Wu G, Zhang H;
XX WPI; 2004-348438/32.
XX New nucleic acid molecule for diagnosing, preventing or treating diseases
XX such as proliferative (e.g. cancer), inflammatory, immune, metabolic,
XX genetic, bacterial and viral diseases.
XX Claim 1; SEQ ID NO 1166; 428pp; English.
XX The present invention relates to an isolated nucleic acid molecule
XX encoding a polypeptide which is believed to be cytostatic,
XX antiinflammatory, immunosuppressive, antibacterial and virucidal. The
XX composition and methods are useful for diagnosing, preventing and
XX treating diseases such as proliferative (e.g. cancer), inflammatory,
XX immune, metabolic, genetic, bacterial and viral diseases. The present
XX sequence represents a human secreted protein encoding sequence. The
XX present sequence is available on WIPOWEB and is not in the specification.
XX Sequence 21 BP; 4 A; 1 C; 15 G; 1 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.1e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 853 GAGGAGGAGCTGTGGAGGC 872
Db 2 GAGGAGGAGGTGGGGAGGC 21
|||||
|

RESULT 825
ADH70559
ID ADH70559 standard; DNA; 22 BP.
XX ADH70559;
XX 25-MAR-2004 (first entry)
XX Human Vbeta gene repeat sequence #349.
XX human; T-cell associated disease; Vbeta; autoimmune disease;
XX degenerative nervous system disease; graft versus host disease;
XX hypersensitivity disease; infectious disease; neoplastic disease;
XX Addison's disease; atrophic gastritis;
XX degenerative nervous system disease; multiple sclerosis;
XX Alzheimer's disease; hypersensitivity disease; type I hypersensitivity;
XX allergy; type II hypersensitivity; Goodpasture's syndrome;
XX type IV hypersensitivity; leprosy; infectious disease; viral infection;
XX HIV; fungal infection; Candida; parasitic infection; schistosoma;
XX filaria; bacterial infection; Mycobacterium; neoplastic disease;
XX lymphoproliferative disease; leukaemia; lymphoma; cancer; brain cancer;
XX breast cancer; ds.
XX Homo sapiens.
XX US2002150891-A1.
XX 17-OCT-2002.
XX 05-MAR-1999; 99US-00263959.
XX 19-SEP-1994; 94US-00309335.
XX 19-SEP-1995; 95US-00531241.
XX (HOOD/) HOOD L E.
XX (ROWE/) ROWEN L.

```

PI Hood LE, Rowen L;
 XX WPI; 2004-059052/06.
 XX
 PT Kit for diagnosing and treating T-cell associated diseases e.g.
 PT autoimmune, degenerative nervous system and infectious disease, comprises
 PT nucleic acid primers specifically priming and allowing amplification of a
 PT Vbeta gene.
 XX
 PS Disclosure; SEQ ID NO 753; 164pp; English.
 XX
 CC The invention relates to a kit for diagnosing and treating T-cell
 CC associated diseases which comprises a panel of nucleic acid primers
 CC specifically priming and allowing amplification of each Vbeta gene,
 CC VbetARNA or cDNA. The kit is useful for diagnosing organ transplant
 CC rejection and diagnosing and treating T-cell associated diseases
 CC including autoimmune diseases, degenerative nervous system diseases,
 CC graft versus host disease, hypersensitivity diseases, infectious diseases
 CC and neoplastic diseases. Autoimmune diseases include Addison's disease,
 CC atrophic gastritis. Degenerative nervous system diseases include multiple
 CC sclerosis and Alzheimer's disease. Hypersensitivity diseases include Type
 CC I hypersensitivities such as contact with allergens that lead to
 CC allergies, Type II hypersensitivities such as those present in
 CC Goodpasture's syndrome and Type IV hypersensitivities such as those
 CC manifested in leprosy. Infectious diseases include viral infections
 CC caused by viruses such as HIV, fungal infections such as those caused by
 CC the yeast genus Candida, parasitic infections such as those caused by
 CC schistosomes, filaria and bacterial infections such as those caused by
 CC Mycobacterium. Neoplastic diseases include lymphoproliferative diseases
 CC such as leukaemias, lymphomas and cancers such as cancer of the brain,
 CC breast. The present sequence represents a Vbeta gene repeat sequence.
 XX
 SQ Sequence 22 BP; 9 A; 0 C; 2 G; 11 T; 0 U; 0 Other;
 Query Match 0.4%; Score 16.8; DB 1; Length 22;
 Best Local Similarity 90.0%; Pred. No. 1.1e+03;
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 3463 TATATATATCTATATATATA 3482
 DB 2 TATATATATCTATATGATA 21
 RESULT 826
 AAV30066/c
 ID AAV30066 standard; DNA; 22 BP.
 XX
 AC AAV30066;
 XX
 DT 13-AUG-1998 (first entry)
 XX
 DE PCR primer used to amplify the IL-12 p40 subunit.
 XX
 KW IL-12 p40 subunit; treatment; intracellular infection; mammal;
 KW immunogenic portion; antigen; intracellular pathogen;
 KW bacterial infection; legionella; tuberculosis; chlamydia;
 KW parasitic infection; rickettsia; leishmaniasis; malaria; viral infection;
 KW Herpes; HIV; FIV; PCR primer; ss.
 XX
 OS Synthetic.
 OS Homo sapiens.
 XX
 PN WO9812332-A1.
 XX
 PD 26-MAR-1998.
 XX
 PF 16-SEP-1997; 97WO-US016453.
 XX
 PR 17-SEP-1996; 96US-0025267P.
 XX
 PA (CHIR) CHIRON CORP.
 PA (SCRI) SCRIPPS RES INST.
 XX

PI Sallberg M, Millich DR, Lee WTL;
 XX WPI; 1998-217270/19.
 XX
 PT Vector construct directing expression of intracellular pathogenic antigen
 PT - useful for, e.g. treatment of intracellular diseases in animals such as
 PT tuberculosis and chlamydia.
 XX
 PS Example 2; Page 45; 141pp; English.
 XX
 CC PCR primers AAV30066-67 were used to amplify the IL-12 p40 subunit from
 CC normal uninfected human peripheral blood mononucleocytes activated with
 CC staphylococcus aureus. The amplified product is cloned and used to
 CC exemplify the invention, which describes a method for treating
 CC intracellular infections of warm-blooded mammals. This comprises
 CC administering to the mammal a vector construct which directs the
 CC expression of at least one immunogenic portion of an antigen derived from
 CC an intracellular pathogen, and also administering a protein which
 CC comprises the immunogenic portion of the antigen. The composition is used
 CC to treat intracellular infections within warm-blooded animals e.g.
 CC bacterial infections such as legionella, tuberculosis and chlamydia,
 CC parasitic infections such as rickettsia, leishmaniasis or malaria and
 CC viral infections like Hepatitis, Herpes, HIV and FIV
 XX
 SQ Sequence 22 BP; 7 A; 6 C; 6 G; 3 T; 0 U; 0 Other;
 Query Match 0.4%; Score 16.8; DB 1; Length 22;
 Best Local Similarity 90.0%; Pred. No. 1.1e+03;
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 1820 TCTGCTCTGGGAGATCTTC 1839
 DB 20 TCTGCTCTGGGAGATCTGC 1
 RESULT 827
 AAD21248/c
 ID AAD21248 standard; DNA; 22 BP.
 XX
 AC AAD21248;
 XX
 DT 15-JAN-2002 (first entry)
 XX
 DE Human PBMC IL-12 p40 subunit amplifying sense PCR primer.
 XX
 KW Hepatitis B; hepatitis C; immunogen; HBV; HCV; hepatocellular carcinoma;
 KW HCC; gene therapy; virucide; hepatotropic; antiinflammatory; cytostatic;
 KW PCR primer; human; peripheral blood mononucleocyte; PBMC; interleukin-12;
 KW IL-12 p40 subunit; ss.
 XX
 OS Homo sapiens.
 XX
 PN US6297048-B1.
 XX
 PD 02-OCT-2001.
 XX
 PF 07-JUN-1995; 95US-00483511.
 XX
 PR 04-FEB-1992; 92US-00830417.
 PR 17-MAR-1993; 93US-00032385.
 PR 04-AUG-1993; 93US-00102132.
 PR 05-AUG-1994; 94US-00286829.
 PR 19-JAN-1995; 95US-00374414.
 XX
 PA (CHIR) CHIRON CORP.
 XX
 PI Jolly DJ, Chang SMW, Lee WTL, Townsend K, O'dea J;
 XX WPI; 2001-647290/74.
 XX
 DR New vectors that direct the (co-)expression of one or more immunogenic
 PT portions of the hepatitis B or C virus antigen(s), useful in gene
 PT therapy, e.g. for treating or preventing hepatitis B or C infections, or

XX AAC83856;
AC
XX 02-MAR-2001 (first entry)
DT
XX VH back PCR primer #5.
DE
XX Human; Fab fragment; antigen-binding; antibody; PCR primer; ss.
KW
XX Homo sapiens.
OS
XX EP1054018-A1.
PN
XX 22-NOV-2000.
PD
XX 18-MAY-1999; 99EP-00201558.
PF
XX 18-MAY-1999; 99EP-00201558.
PR
XX (TARG-) TARGET QUEST BV.
PA
XX Hoogenboom HRJM;
PI
XX WPI; 2001-042369/06.
DR
XX Phage display libraries of human Fab fragments useful for isolating high-affinity antibodies against specific target comprises polynucleotides encoding CDR containing domains of heavy chain and light chain genes.
PT
XX Disclosure; Fig 2; 74pp; English.
PS
XX The present invention relates to a human Fab fragment library. The Fab fragment library is useful for selecting an antigen-binding Fab using in vitro selection on immobilised or labelled antigen such as monoclonal Fab or polyclonal collection of Fab clones that specifically bind to MUC1. The obtained antibodies are useful as research reagents or as therapeutic products and also are important for target validation and target discovery in the area of functional genomics. The Fab library is a valuable source of antibodies for many different targets, and is useful to screen off-rates for a large series of the antigen specific Fabs. The present sequence is a PCR primer used to construct the Fab library of the present invention
CC
XX Sequence 23 BP; 3 A; 3 C; 12 G; 3 T; 0 U; 2 Other;
SQ
Query Match 0.4%; Score 16.8; DB 1; Length 23;
Best Local Similarity 81.8%; Pred. No. 1.2e+03;
Matches 18; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
QY 853 GAGGAGGAGCTGCTGGAGGCTG 874
DB 1 GAGGTGCAGCTGTGGAGWCYG 22
RESULT 833
AAC83855
ID AAC83855 standard; DNA; 23 BP.
XX
AC AAC83855;
DT
XX 02-MAR-2001 (first entry)
DT
XX VH back PCR primer #4.
DE
XX Human; Fab fragment; antigen-binding; antibody; PCR primer; ss.
KW
XX Homo sapiens.
OS
XX EP1054018-A1.
PN
XX 22-NOV-2000.
PD
XX 18-MAY-1999; 99EP-00201558.
PF

XX 18-MAY-1999; 99EP-00201558.
PR
XX (TARG-) TARGET QUEST BV.
PA
XX Hoogenboom HRJM;
PI
XX WPI; 2001-042369/06.
DR
XX Phage display libraries of human Fab fragments useful for isolating high-affinity antibodies against specific target comprises polynucleotides encoding CDR containing domains of heavy chain and light chain genes.
PT
XX Disclosure; Fig 2; 74pp; English.
PS
XX The present invention relates to a human Fab fragment library. The Fab fragment library is useful for selecting an antigen-binding Fab using in vitro selection on immobilised or labelled antigen such as monoclonal Fab or polyclonal collection of Fab clones that specifically bind to MUC1. The obtained antibodies are useful as research reagents or as therapeutic products and also are important for target validation and target discovery in the area of functional genomics. The Fab library is a valuable source of antibodies for many different targets, and is useful to screen off-rates for a large series of the antigen specific Fabs. The present sequence is a PCR primer used to construct the Fab library of the present invention
CC
XX Sequence 23 BP; 3 A; 3 C; 11 G; 5 T; 0 U; 1 Other;
SQ
Query Match 0.4%; Score 16.8; DB 1; Length 23;
Best Local Similarity 81.8%; Pred. No. 1.2e+03;
Matches 18; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
QY 853 GAGGAGGAGCTGCTGGAGGCTG 874
DB 1 SAGGTGCAGCTGTGGAGTCYG 22
RESULT 834
ABL99446
ID ABL99446 standard; DNA; 23 BP.
XX
AC ABL99446;
DT
XX 02-JUL-2002 (first entry)
DT
XX Left PCR primer used to target prostaglandin D synthase canine gene.
DE
XX Canine gene array; toxicological response; ss.
KW
XX Canis sp.
OS
XX WO200208453-A2.
PN
XX 31-JAN-2002.
PD
XX 23-JUL-2001; 2001WO-US023311.
PF
XX 21-JUL-2000; 2000US-0220057P.
PR
XX (PHAS-) PHASE-1 MOLECULAR TOXICOLOGY.
PA
XX Farr SB, Pickett GG, Neft RE, Dunn RT;
PI
XX WPI; 2002-217063/27.
DR
XX Identifying toxicologically relevant canine gene to determine PT toxicological responses of agents, by obtaining and comparing gene expression profiles of untreated canine cells and canine cells treated with an agent.
PT
XX Example 5; Page 52; 140pp; English.
PS
XX

CC This invention relates to identifying a toxicologically relevant canine
 CC gene and the generation of an array of toxicologically relevant canine
 CC genes. The gene array is useful for obtaining a gene expression profile,
 CC by exposing a population of cells to an agent, obtaining cDNA from the
 CC population of cells, labeling the cDNA, and contacting the cDNA with the
 CC gene array. The relevant gene is useful for making and using arrays to
 CC determine toxicological responses to various agents, and also useful for
 CC identifying novel gene sequences and novel canine genes. The method for
 CC analysing toxicological responses using the canine gene array is rapid
 CC and efficient. The present sequence is related to the canine gene array
 XX
 SQ Sequence 23 BP; 4 A; 9 C; 5 G; 5 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 23;
 Best Local Similarity 90.0%; Pred. No. 1.2e+03;
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1040 AGGTGTCCTGGAGTCCAAC 1059
 Db 1 AGGTGTCCTGGAGTCCAAC 20

RESULT 835
 ACF06327
 ID ACF06327 standard; DNA; 23 BP.

AC ACF06327;
 XX
 DT 07-OCT-2003 (first entry)

DE Zebrafish vasa PCR primer SEQ ID NO:3.

XX Zebrafish; fish embryo cell line; chimeric fish; genetic; human disease;
 KW vasa; PCR primer; ss.

XX Danio rerio.
 OS Synthetic.

XX WO2003051109-A1.

XX 26-JUN-2003.

XX 13-DEC-2002; 2002WO-US039913.

XX 13-DEC-2001; 2001US-0341355P.

XX 12-FEB-2002; 2002CA-02371460.

XX (PURD) PURDUE RES FOUND.
 PA Collodi P, Fan L, Ma C;

XX WPI; 2003-532958/50.

XX New zebrafish embryo cell line, which becomes a germ cell when introduced
 PT to a fish embryo, useful for making a germ line chimeric zebrafish, which
 PT is a valuable model for genetic studies of human diseases.

XX Example 2; Page 23; 45pp; English.

XX The present invention describes a fish embryo cell line, where a cell of
 CC the fish embryo cell line, after incubation in vitro for at least 24
 CC hours, will become a germ cell when introduced to a fish embryo. Also
 CC described: (1) making the fish embryo cell line; (2) an isolated fish
 CC embryo cell line obtained by the method of (1); (3) making a germ line
 CC chimeric fish; (4) a germ line chimeric fish obtained by the method of
 CC (3); and (5) cell culture media comprising a growth factor and fish cell
 CC conditioned medium, or a growth factor and a fish cell, where the growth
 CC factor is fibroblast growth factor or epidermal growth factor. The fish
 CC embryo cell line is useful for making a germ line chimeric fish,
 CC particularly zebrafish, which is a valuable model for genetic studies of
 CC human diseases. The present sequence represents a PCR primer for
 CC zebrafish vasa, which is used in an example from the present invention
 XX

SQ Sequence 23 BP; 5 A; 4 C; 9 G; 5 T; 0 U; 0 Other;
 Query Match 0.4%; Score 16.8; DB 1; Length 23;
 Best Local Similarity 90.0%; Pred. No. 1.2e+03;
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 646 GTGGAGGTGAATGGCAGCAA 665
 Db 2 GTGGAGGTGAATGGCAGCAA 21

RESULT 836
 AAL62076
 ID AAL62076 standard; DNA; 23 BP.

AC AAL62076;
 XX
 DT 22-SEP-2003 (first entry)

XX Human VH region amplifying antisense PCR primer, VH3B-Back.

XX Micro-scaffold; immunoglobulin; complementarity determining region; CDR;
 KW human; heavy chain variable region; VH; PCR; primer; ss.

XX Homo sapiens.

XX WO2003050531-A2.

XX 19-JUN-2003.

XX 11-DEC-2002; 2002WO-BE000189.

XX 11-DEC-2001; 2001EP-00870274.

XX (ALGO-) ALGONOMICS NV.

XX (ABLY-) ABLYNX NV.

XX Lasters I, Pletinckx J, Boutonnet N, Lauwereys M, Beirnaert E;
 WPI; 2003-577302/54.

XX New isolated polypeptide micro-scaffold displaying immunoglobulin
 PT complementarity determining region (CDR) 2 or CDR3 polypeptide sequences,
 PT useful for searching, selecting and screening for immunoglobulin CDR2 or
 PT CDR3 polypeptide sequences.

XX Example 1; Page 29; 90pp; English.

XX The invention relates to an isolated polypeptide micro-scaffold
 CC displaying immunoglobulin complementarity determining region (CDR)-2 or
 CC CDR3 polypeptide sequences, comprising a CDR2 or CDR3 polypeptide
 CC sequence interconnecting fragments of the adjacent framework polypeptide
 CC sequences, which are arranged to form two anti-parallel beta-strands. The
 CC polypeptide micro-scaffold and the nucleotide sequences are useful for
 CC searching, selecting and screening for immunoglobulin CDR2 or CDR3
 CC polypeptide sequences. The present sequence is a PCR primer used for the
 CC primary amplification of human heavy chain variable region (VH)

XX Sequence 23 BP; 3 A; 3 C; 11 G; 5 T; 0 U; 1 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 23;
 Best Local Similarity 81.8%; Pred. No. 1.2e+03;
 Matches 18; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 853 GAGGAGGACTGGTGGAGCTG 874
 Db 1 SAGGTGACAGCTGGTGGAGCTG 22

RESULT 837
 ACF05339
 ID ACF05339 standard; DNA; 23 BP.

XX

AC ACF05339;
 XX 06-NOV-2003 (first entry)
 DT Human VH gene framework region 1 PCR primer.
 DE Antibody; immunoglobulin; variable domain; human; PCR; primer; ss.
 XX Homo sapiens.
 OS WO2003054016-A2.
 PN 03-JUL-2003.
 XX 20-DEC-2002; 2002WO-BP014662.
 XX 21-DEC-2001; 2001EP-00205100.
 PR (VLA-) VLAAMS INTERUNIVERSITAIR INST BIOTECHNOG.
 PA Muyldermans S;
 PI WPI; 2003-559124/52.
 DR Cloning polynucleotide sequences encoding immunoglobulin variable domains (IGVD) for the manufacture of a medicament by cloning the resulting variable domain fragment sequences into a vector.
 XX Example 3; Page 22; 31pp; English.
 XX The present sequence is that of a PCR primer annealing to framework region 1 of human heavy chain variable region (VH) genes. The primer was used, with an oligo-dT primer, in the amplification of a human immunoglobulin repertoire using cDNA derived from the blood of human donors as template. This provides an example of the method of the invention, which relates to the cloning of immunoglobulin variable domains (IGVD) and the construction of IGVD expression libraries. The method involves first strand cDNA synthesis from mRNA using a universal primer, performing second strand cDNA synthesis using a first primer capable of hybridising to a site at, or adjacent to, the 3' end of each of the IGVD sequences on the antisense strand, cleaving the double-stranded DNA with a restriction enzyme to produce double-stranded DNA encoding a functional IGVD fragment, and cloning the resulting variable domain fragment sequences into a vector.
 XX Sequence 23 BP; 3 A; 3 C; 11 G; 5 T; 0 U; 1 Other;
 SQ Query Match 0.4%; Score 16.8; DB 1; Length 23;
 Best Local Similarity 81.8%; Pred. No. 1.2e+03;
 Matches 18; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
 QY 853 GAGGAGGCTGCTGGAGGCTG 874
 DB 1 SAGGTGAGCTGCTGGAGTCTG 22
 RESULT 838
 ADK95382/C
 ID ADK95382 standard; DNA; 23 BP.
 XX ADK95382;
 AC 06-MAY-2004 (first entry)
 DT Primer of the invention #1102.
 DE human; single nucleotide polymorphism; SNP; ss; primer.
 XX Synthetic.
 OS JP2003259875-A.
 PN 16-SEP-2003.
 XX

XX 08-MAR-2002; 2002JP-00064373.
 XX 08-MAR-2002; 2002JP-00064373.
 PR (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN.
 XX WPI; 2004-093977/10.
 XX Novel polynucleotide useful for PCR amplification along with two DNA fragment from another set of sequences, or for detecting single nucleotide polymorphism in human gene.
 XX Claim 2; SEQ ID NO 4411; 2627pp; Japanese.
 CC The present invention relates to a polynucleotide isolated from a human gene and is useful for detecting a single nucleotide polymorphism in a human gene or for diagnosing of disease. The invention enables the detection of a single nucleotide polymorphism in a human gene. The present sequence represents a primer of the invention.
 XX Sequence 23 BP; 10 A; 10 C; 1 G; 2 T; 0 U; 0 Other;
 SQ Query Match 0.4%; Score 16.8; DB 1; Length 23;
 Best Local Similarity 90.0%; Pred. No. 1.2e+03;
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 2318 TGTGTGTGTGTGTGTGTGCGTG 2337
 DB 20 TGTGTGTGTGTGTGTGTGTG 1
 RESULT 839
 ADP03730
 ID ADP03730 standard; DNA; 23 BP.
 XX ADP03730;
 AC 26-AUG-2004 (first entry)
 DT Antibody related primer, SEQ ID 103.
 DE Cytostatic; Antiarteriosclerotic; Antiinflammatory; Immunosuppressive; human; antibody; cancer lesion; arteriosclerosis; inflammatory disease; autoimmune disease; cancer; primer; ss.
 XX Synthetic.
 OS WO2004048571-A1.
 FN 10-JUN-2004.
 XX 21-NOV-2003; 2003WO-JP014919.
 XX 22-NOV-2002; 2002JP-00339241.
 PR (CHUS) CHUGAI SEIYAKU KK.
 PA (PHAR-) PHARMALOGICALS RES PTE LTD.
 XX Tsuchiya M, Suzuki M, Yoshida K, Fujii E, Matsubara K, Tsunoda H;
 WPI; 2004-450382/42.
 XX Isolating polynucleotide that encodes antibody which acts against lesioned tissue, involves isolating B cells that is infiltrated into lesioned tissue, and acquiring polynucleotide that encodes antibody from isolated B cells.
 XX Example 3; SEQ ID NO 103; 200pp; Japanese.
 XX The present invention relates to novel antibody sequences, which acts against lesioned tissue. Also claimed is a method (M1) for isolating B polynucleotide encoding the antibodies, which involves (a) isolating B

CC cells that is infiltrated into lesioned tissue, and (b) acquiring
 CC polynucleotide that encodes an antibody from the isolated B cells. The
 CC antibodies are useful for treating cancer lesions, arteriosclerosis,
 CC inflammatory disease or autoimmune disease. The present sequence was used
 CC to illustrate the invention.

XX Sequence 23 BP; 3 A; 3 C; 11 G; 5 T; 0 U; 1 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 23;

Best Local Similarity 81.8%; Pred. No. 1.2e+03;

Matches 18; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 853 GAGGAGGAGCTGGTGGAGGCTG 874

DB 1 GARGTCAGCTGGTGGAGTCTG 22

RESULT 840

AAT39968/C

ID AAT39968 standard; DNA; 24 BP.

XX AC

XX AAT39968;

XX 24-JUN-1997 (first entry)

XX Minimal motif coding sequence ZGR1/ZGR2.

XX Epstein-Barr virus; EBV; nuclear antigen; EBVNA1; antigenic protein;
 KW Glycine-rich repeat sequence; immune system; regulatory protein; enzyme;
 KW cytokine; lymphokine; cell adhesion molecule; costimulatory molecule;
 KW drug resistance; tumour suppressant; genetic disease; viral disease;
 KW enzyme disorder; Gaucher's disease; cancer; immune system disorder; GRRS;
 KW gene therapy; minimal motif; ds.

XX Synthetic.

XX Key Location/Qualifiers

FT misc_feature 1..4

FT /*tag= a

FT /note= "5' overhang"

FT complement (24)

FT /*tag= b

FT /note= "5' overhang of TTCC"

XX WO9632483-A1.

PN 17-OCT-1996.

PD 10-APR-1996;

XX 96WO-GB000876.

XX 10-APR-1995;

PR 95SE-00001324.

PR 01-SEP-1995;

PR 95US-00522995.

PR 15-SEP-1995;

XX 95US-00529190.

XX (MASU/) MASUCCI M.

PA Masucci M;

XX WPI: 1996-477134/47.

DR P-PSDB; AAW05707.

XX New proteins containing GRRS which are invisible to the immune system -
 PT used for treating cancer, immune system disorders, viral diseases, etc.

XX Example 1; Page 43; 61pp; English.

XX AAT39966-T39973 represent double stranded coding sequences for minimal
 CC motifs of Glycine-rich repeat sequences (GRRS). Full length GRRS
 CC sequences, such as the Epstein-Barr virus strain B95.8 nuclear antigen
 CC (EBNA1) represented by AAW05704, can be used in the method of the
 CC invention. The method of the invention is for making an antigenic protein
 CC invisible to the immune system, and consists of inserting a GRRS into the
 CC antigenic protein. The method can be used to insert a GRRS into

CC therapeutic proteins, marker genes, regulatory proteins of viral vectors,
 CC or vaccine components. The therapeutic proteins include enzymes,
 CC cytokines, lymphokines, cell adhesion molecules, costimulatory molecules,
 CC or protein products of drug resistant genes or tumour suppressor genes.
 CC The antigenic proteins or corresponding nucleic acids are used to treat
 CC genetic and viral diseases, especially enzyme disorders such as Gaucher's
 CC disease, cancer, immune system disorders and other diseases treatable by
 CC gene therapy

XX Sequence 24 BP; 5 A; 2 C; 14 G; 3 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 24;

Best Local Similarity 90.0%; Pred. No. 1.2e+03;

Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2104 ACCCCAGCTCCAGCTCCTC 2123

DB 24 ACCCGCAGCTCCAGCTCCTC 5

RESULT 841

AAV55819

ID AAV55819 standard; DNA; 24 BP.

XX AC

XX AAV55819;

XX 27-AUG-2003 (revised)

DT 18-NOV-1998 (first entry)

XX Multimerisation of minimal motifs using primer ZGE2.

XX Fusion protein; stabilising polypeptide; proteolytic degradation;
 KW resistance; half-life; autoimmune disease; inflammation; nitro drug;
 KW IkappaB regulator protein; inflammatory bowel disease; in vivo imaging;
 KW nitroreductase protein; enzyme therapy; prodrug therapy; protease;
 KW cancer; pathological condition; minimal motif; PCR primer; ss.

XX Synthetic.

OS Human herpesvirus 4.

XX WO9822577-A1.

XX 28-MAY-1998.

XX 17-NOV-1997;

XX 97WO-IB001508.

XX 15-NOV-1996;

XX 96US-0030986P.

XX 25-JUN-1997;

XX 97US-0048945P.

XX (MASU/) MASUCCI M G.

XX Masucci MG;

XX WPI: 1998-312463/27.

XX New fusion proteins resistant to proteolytic degradation - comprising a
 PT core protein with a stabilising polypeptide comprising a peptide sequence
 PT containing glycine repeats.
 XX Disclosure; Page 72; 120pp; English.

XX Sequences shown in AAV55812 to AAV55827 represent primers used in the
 CC course of the invention for the multimerisation of minimal motifs. The
 CC invention provides a method for increasing the resistance of a core
 CC protein to proteolytic degradation that comprises linking or inserting
 CC onto or into the core protein a stabilising polypeptide of formula
 CC [(Gly)X(Glyb)Y(Glyc)Z]n where Glya, Glyb, Glyc are 1-6 sequential Gly
 CC residues and X, Y, Z are Ala, Ser, Val, Ile, Leu, Met, Phe, Pro or Thr
 CC and n can be anything between 1-66. X, Y and Z need not be identical from
 CC n repeat to n repeat. Alternatively a nucleic acid encoding a stabilising
 CC polypeptide can be linked onto or inserted into a nucleic acid encoding a
 CC core protein. The fusion proteins of the invention are more resistant to
 CC degradation by proteases and, thus, have a longer half-life than the

CC unused core protein. The products can be used for treating autoimmune
CC diseases, cancer and inflammation. In particular, the core protein may be
CC an IkappaB regulator protein for the treatment of inflammatory bowel
CC disease, or a nitroreductase protein which can activate nitro drugs in
CC enzyme/prodrug therapy to treat cancer or other pathological conditions.
CC The fusion proteins can also be used in diagnostic methods such as in
CC vivo imaging. (Updated on 27-AUG-2003 to correct OS field.)
XX
SQ Sequence 24 BP; 3 A; 14 C; 2 G; 5 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 24;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2103 CACCCCGACCTCCAGCTCCT 2122
||||| ||||| ||||| |||||
Db 4 CACCCCGACCTCCAGCTCCT 23

RESULT 842
AAV55816/C
ID AAV55816 standard; DNA; 24 BP.

XX
AC AAV55816;
XX
DT 27-AUG-2003 (revised)
DT 18-NOV-1998 (first entry)

XX Multimerisation of minimal motifs using primer ZGR1.
DE
DE Fusion protein; stabilising polypeptide; proteolytic degradation;
KW resistance; half-life; autoimmune disease; inflammation; nitro drug;
KW IkappaB regulator protein; inflammatory bowel disease; in vivo imaging;
KW nitroreductase protein; enzyme therapy; prodrug therapy; protease;
KW cancer; pathological condition; minimal motif; PCR primer; ss.

XX Synthetic.
OS Human herpesvirus 4.
OS
PN WO9822577-A1.
XX
XX 28-MAY-1998.

XX 17-NOV-1997; 97WO-18001508.
XX
XX 15-NOV-1996; 96US-0030986P.
XX 25-JUN-1997; 97US-0048945P.

XX (MASU/) MASUCCI M G.
XX
XX Masucci MG;
XX WPI; 1998-312463/27.

XX New fusion proteins resistant to proteolytic degradation - comprising a
PT core protein with a stabilising polypeptide comprising a peptide sequence
PT containing glycine repeats.

PS Disclosure; Page 72; 120pp; English.

XX Sequences shown in AAV55812 to AAV55827 represent primers used in the
CC course of the invention for the multimerisation of minimal motifs. The
CC invention provides a method for increasing the resistance of a core
CC protein to proteolytic degradation that comprises linking or inserting
CC onto or into the core protein a stabilising polypeptide of formula
CC [(Glya)(Glyb)(Glyc)2]n where Glya, Glyb, Glyc are 1-6 sequential Gly
CC residues and X, Y, Z are Ala, Ser, Val, Ile, Leu, Met, Phe, Pro or Thr
CC and n can be anything between 1-66. X, Y and Z need not be identical from
CC n repeat to n repeat. Alternatively a nucleic acid encoding a stabilising
CC polypeptide can be linked onto or inserted into a nucleic acid encoding a
CC core protein. The fusion proteins of the invention are more resistant to
CC degradation by proteases and, thus, have a longer half-life than the
CC unused core protein. The products can be used for treating autoimmune

CC diseases, cancer and inflammation. In particular, the core protein may be
CC an IkappaB regulator protein for the treatment of inflammatory bowel
CC disease, or a nitroreductase protein which can activate nitro drugs in
CC enzyme/prodrug therapy to treat cancer or other pathological conditions.
CC The fusion proteins can also be used in diagnostic methods such as in
CC vivo imaging. (Updated on 27-AUG-2003 to correct OS field.)
XX
SQ Sequence 24 BP; 5 A; 2 C; 14 G; 3 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 24;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2104 ACCCCCGACCTCCAGCTCCTC 2123
||||| ||||| ||||| |||||
Db 24 ACCCCCGACCTCCAGCTCCTC 5

RESULT 843
AAV26955
ID AAV26955 standard; DNA; 24 BP.

XX
AC AAV26955;
XX
DT 24-JUN-1999 (first entry)

XX PCR primer GRI/51F used to identify mutations in exon 6 of APECD gene.
DE
DE Autoimmune regulator; AIR; immune maturation; immune response; disease;
KW autoimmune polyendocrinopathy candidiasis ectodermal dystrophy; APECD;
KW autoimmune polyglandular syndrome type 1; AFS 1; PCR primer; ss.

XX Synthetic.
OS Homo sapiens.
XX
XX WO9915559-A1.
XX
XX 01-APR-1999.

XX 23-SEP-1998; 98WO-FI000749.
XX
XX 23-SEP-1997; 97FI-00003762.

XX (FIRM-) FINNISH IMMUNOTECHNOLOGY LTD.

XX Krohn K, Heino M, Peterson P, Scott H, Antonarakis S, Lalioti M;
PI Shimizu N, Kudoh J;
XX
XX WPI; 1999-244390/20.

XX Autoimmune regulator 1 (AIR1) DNA sequence.
XX
XX Example 3; Page 13; 59pp; English.

XX PCR primers AAV26955-56 were used to identify mutations in exon 6 of the
CC autoimmune polyendocrinopathy candidiasis ectodermal dystrophy (APECD)
CC (also known as autoimmune polyglandular syndrome type 1 (APS I)) gene.
CC The mutated and normal genes give PCR products of different sizes, the
CC products being 285 and 225 bp, respectively. The specification describes
CC autoimmune regulator proteins (AIR-1, AIR-2, and AIR-3). The AIR
CC polypeptides and polynucleotides can be used in methods for the diagnosis
CC and treatment of diseases related to immune maturation and regulation of
CC immune response towards self and nonself. They can be used particularly
CC in the diagnosis and treatment of APECD

XX Sequence 24 BP; 6 A; 7 C; 8 G; 3 T; 0 U; 0 Other;
Query Match 0.4%; Score 16.8; DB 1; Length 24;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1600 GCCTCCCGACGAGTCATCCA 1619
||||| ||||| ||||| |||||

Db 3 GGCTCCAGAGTGCATCCA 22

RESULT 844
AAZ90146
ID AAZ90146 standard; DNA; 24 BP.

XX AC AAZ90146;
XX DT 19-MAY-2000 (first entry)
XX DE Fibronectin inhibitor oligonucleotide #3.
XX KW Fibronectin inhibitor; GBP-1; cell growth; cancer; cell aging; ss.
XX OS Unidentified.
XX PN JP2000014385-A.
XX XX 18-JAN-2000.
XX PF 06-JUL-1998; 98JP-00190001.
XX PR 06-JUL-1998; 98JP-00190001.
XX XX (SUME) SUMITOMO ELECTRIC IND CO.
XX DR WPI; 2000-154339/14.
XX PT A DNA coding a protein inhibiting the expression of fibronectin gene -
PT used for research of expression inhibition of fibronectin related to cell
PT growth, cancer and cell ageing.
XX PS Fibronectin inhibitor oligonucleotide #3.
XX XX Sequence 24 BP; 3 A; 4 C; 14 G; 3 T; 0 U; 0 Other;
XX Query Match 0.4%; Score 16.8; DB 1; Length 24;
XX Best Local Similarity 90.0%; Pred. No. 1.2e+03;
XX Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2928 CGTGGGGGGCGTGAGGGA 2947
|||||
Db 3 CGTGGGGGGCGGAGGGA 22
|||||

RESULT 846
AAL47757
ID AAL47757 standard; DNA; 24 BP.
XX AC AAL47757;
XX DT 18-SEP-2002 (first entry)
XX DE Ras gene PCR primer SEQ ID NO: 53.
XX KW K-ras; N-ras; H-ras; ras; oncogene; mutation detection; PCR; primer;
XX KW probe; restriction mediated selection PCR; cancer; ss.
XX OS Unidentified.
XX PN WO200229005-A2.
XX PD 11-APR-2002.
XX PF 02-OCT-2001; 2001WO-US042422.
XX PR 02-OCT-2000; 2000US-0237416P.
XX PA (ORTH) ORTHO CLINICAL DIAGNOSTICS INC.
XX PI Belly RT, Todd AV, Fuery CJ;
XX DR WPI; 2002-479599/51.
XX PT Amplifying and determining mutant sequences in DNA sample using
XX PT thermostable restriction enzyme so that during thermocycling mutant
XX PT sequences are enriched while wild-type sequences and/or primer induced
XX PT sites are cleaved.
XX PS Claim 1; Page 84; 116pp; English.
XX XX The present invention relates to a method of amplifying and determining
XX CC target mutant Ras sequences in a DNA sample, involving the use of a
XX CC thermostable restriction enzyme and primers shown in AAL47705-AAL47771.
XX CC The method used is designated restriction mediated selection polymerase
XX CC chain reaction (REMS-PCR). The method can be used to detect H-ras, K-ras

Db 3 GGCTCCAGAGTGCATCCA 22

RESULT 845
AAZ90153
ID AAZ90153 standard; DNA; 24 BP.

XX AC AAZ90153;
XX DT 19-MAY-2000 (first entry)
XX DE Fibronectin inhibitor oligonucleotide #6.
XX KW Fibronectin inhibitor; GBP-1; cell growth; cancer; cell aging; ss.
XX OS Unidentified.
XX PN JP2000014385-A.
XX PD 18-JAN-2000.
XX PF 06-JUL-1998; 98JP-00190001.

QY 2928 CGTGGGGGGCGTGAGGGA 2947
|||||
Db 3 CGTGGGGGGCGGAGGGA 22
|||||

RESULT 845
AAZ90153
ID AAZ90153 standard; DNA; 24 BP.

XX AC AAZ90153;
XX DT 19-MAY-2000 (first entry)
XX DE Fibronectin inhibitor oligonucleotide #6.
XX KW Fibronectin inhibitor; GBP-1; cell growth; cancer; cell aging; ss.
XX OS Unidentified.
XX PN JP2000014385-A.
XX PD 18-JAN-2000.
XX PF 06-JUL-1998; 98JP-00190001.

QY 2928 CGTGGGGGGCGTGAGGGA 2947
|||||
Db 3 CGTGGGGGGCGGAGGGA 22
|||||

RESULT 846
AAL47757
ID AAL47757 standard; DNA; 24 BP.
XX AC AAL47757;
XX DT 18-SEP-2002 (first entry)
XX DE Ras gene PCR primer SEQ ID NO: 53.
XX KW K-ras; N-ras; H-ras; ras; oncogene; mutation detection; PCR; primer;
XX KW probe; restriction mediated selection PCR; cancer; ss.
XX OS Unidentified.
XX PN WO200229005-A2.
XX PD 11-APR-2002.
XX PF 02-OCT-2001; 2001WO-US042422.
XX PR 02-OCT-2000; 2000US-0237416P.
XX PA (ORTH) ORTHO CLINICAL DIAGNOSTICS INC.
XX PI Belly RT, Todd AV, Fuery CJ;
XX DR WPI; 2002-479599/51.
XX PT Amplifying and determining mutant sequences in DNA sample using
XX PT thermostable restriction enzyme so that during thermocycling mutant
XX PT sequences are enriched while wild-type sequences and/or primer induced
XX PT sites are cleaved.
XX PS Claim 1; Page 84; 116pp; English.
XX XX The present invention relates to a method of amplifying and determining
XX CC target mutant Ras sequences in a DNA sample, involving the use of a
XX CC thermostable restriction enzyme and primers shown in AAL47705-AAL47771.
XX CC The method used is designated restriction mediated selection polymerase
XX CC chain reaction (REMS-PCR). The method can be used to detect H-ras, K-ras

CC and N-ras mutations, which may lead to cancer. The present sequence is a
 CC PCR primer useful in the method of the invention
 XX
 SQ Sequence 24 BP; 3 A; 6 C; 10 G; 5 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 24;
 Best Local Similarity 90.0%; Pred. No. 1.2e+03;
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 834 GCTGGTGGTGTGCTCCAGCCG 853
 |||||
 Db 5 GCTGGTGGTGTGCTCCAGCCG 24

RESULT 847
 ADQ30147/C
 ID ADQ30147 standard; DNA; 24 BP.

XX ADQ30147;
 AC ADQ30147;
 DT 09-SEP-2004 (first entry)

DE Murine VR1 exon 1d transcription factor binding fragment #39.

XX ds; VR1 receptor; vanilloid receptor type 1; modulator;
 KW pain transmission; primary sensory neuron; transcription factor;
 KW detection; MZF1; NFKappaB; NFAT; GATA1; sensitivity disorder; analgesia;
 KW hypalgesia; hyperalgesia; neuralgia; myalgia; murine.

XX Mus sp.
 XX WO2004053120-A2.
 PN
 PD 24-JUN-2004.

XX 01-DEC-2003; 2003WO-EP013522.
 XX 09-DEC-2002; 2002DE-01057421.
 PR
 XX (CHEF) GRUENENTHAL GMBH.

XX Weihe E, Bieller A, Schaefer MKH;
 PI
 XX WPI; 2004-468868/44.

XX New nucleic acid that modulates expression of the vanilloid receptor-1,
 PT useful for control of pain or sensitivity disorders, comprises sequences
 PT from control regions of the receptor gene.

XX Disclosure; Page 49; 68pp; German.

XX This invention describes a novel nucleic acid containing a specific
 CC segment having at least one region that modulates expression of the VR1
 CC (vanilloid receptor type 1) receptor, or a functional derivative, allele
 CC or fragment of this region, or a sequence that hybridises to it under
 CC standard conditions. The VR1 modulator is derived from one or more of
 CC positions 221931-223344 of GenBank AL670399, 31673-36359 of AL663116, or
 CC 4731-43231 or 36616-33151 of AF168787 and is involved in transmission of
 CC pain, particularly in primary sensory neurons. The invention also
 CC describes a vector that contains the VR1 modulator, host cells containing
 CC this vector (other than human germ or embryonal stem cells) and a method
 CC for modulating expression of the VR1 receptor by introducing the
 CC modulator or the vector into a cell that contains the VR1 gene. The
 CC products of the invention are used for detecting a transcription factor
 CC from its binding to a regulatory sequence (or a double-stranded
 CC oligonucleotide fragment of it), e.g. by Western blotting or enzyme-
 CC linked immunosorbant assay, particularly for diagnosis of diseases
 CC associated with overexpression or underexpression of the transcription
 CC factor. The region that modulates VR1 receptor expression includes a
 CC binding site for a transcription factor, e.g. MZF1, NFKappaB, NFAT or
 CC GATA1. The nucleic acids of the invention, or vectors containing them,
 CC are used for prevention or treatment of pain, also for treating
 CC sensitivity disorders, e.g. analgesia, hypalgesia or hyperalgesia, also

CC neuralgia and myalgia, that are associated with activity of the VR1
 CC receptor. This sequence represents a fragment of murine VR1 exon 1d DNA
 CC which is capable of binding to a transcription factor.

XX Sequence 24 BP; 13 A; 6 C; 2 G; 3 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 24;
 Best Local Similarity 90.0%; Pred. No. 1.2e+03;
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 3299 TTCTATAGGATTTTCTTT 3318
 |||||
 Db 21 TTCTCTAGGATTTTGT 2

RESULT 848
 AAF74922/C
 ID AAF74922 standard; DNA; 29 BP.

XX AAF74922;
 AC AAF74922;
 DT 23-MAY-2001 (first entry)

DE CD40L poly-A tract sequence SEQ ID NO:19.

XX Human; CD40L; promoter; CD40 ligand promoter; rheumatoid arthritis;
 KW diagnosis; antiarthritic; antirheumatic; immunosuppressive;
 KW antiinflammatory; inflammatory disease; autoimmune disease; ds.

XX Homo sapiens.

XX WO200119844-A1.
 PN
 PD 22-MAR-2001.

XX 13-SEP-2000; 2000WO-US024966.
 XX 13-SEP-1999; 99US-0153625P.
 PR
 XX (NYRE-) NEW YORK SOC RELIEF RUPTURED & CRIPPLED.

XX Crow MK, Li Y;
 PI
 XX WPI; 2001-244776/25.

XX New altered CD40L promoter for use in the study, diagnosis and treatment
 PT of a variety of inflammatory disorders and autoimmune diseases, such as
 PT rheumatoid arthritis.

XX Example 1; Fig 3; 90pp; English.

XX The present invention describes an isolated, purified nucleic acid, which
 CC is an altered CD40 ligand (CD40L) promoter (I) for CD40 ligand, having
 CC residues 331-455 of the sequence comprising 455 nucleotides given in
 CC AAF74905 where A in the wild type sequence at position 331 (corresponding
 CC to position -125) is replaced with C. (I) has antiarthritic,
 CC antirheumatic, immunosuppressive and antiinflammatory activities, and can
 CC be used in gene therapy. (I) is useful in the study, diagnosis and
 CC treatment of inflammatory and autoimmune diseases, as well as diseases in
 CC which elevated expression of CD40L is a factor, e.g., rheumatoid
 CC arthritis. The present sequence represents a CD40L poly-A tract sequence
 CC which is used in an example from the present invention

XX Sequence 29 BP; 22 A; 4 C; 0 G; 3 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 29;
 Best Local Similarity 75.0%; Pred. No. 1.5e+03;
 Matches 21; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 3258 AAGATATTTATTTGCTTGTCTTTT 3285
 |||||
 Db 28 AAGTTTTTTGTTTGTCTTTT 1

DR WPI; 1998-286974/25.

XX New isolated nucleic acid segments from the human genome - used for

PT determining polymorphic forms for use in e.g. forensics, paternity

PT testing or phenotypic typing for disease.

XX

XX Claim 16; Page 202; 310pp; English.

XX

XX AAX09121-X10268 are allele-specific oligonucleotide primers used in the

CC isolation of various biallelic polymorphic markers found in the human

CC genome (represented in AAX10269-X12937). These primers can be used in a

CC method for determining polymorphic forms in an individual for use in e.g.

CC forensics, paternity testing or for phenotypic typing for diseases such

CC as agammaglobulinemia, diabetes insipidus, Lesch-Nyhan syndrome, muscular

CC dystrophy, Wiskott-Aldrich syndrome, Fabry's disease, familial

CC hypercholesterolemia, polycystic kidney disease, hereditary

CC spherocytosis, von Willebrand's disease, tuberosus sclerosis, hereditary

CC haemorrhagic telangiectasia, familial colonic polyposis, Ehlers-Danlos

CC syndrome, osteogenesis imperfecta, acute intermittent porphyria,

CC autoimmune diseases, inflammation, cancer, diseases of the nervous

CC system, infection by pathogenic microorganisms, and characteristics such

CC as longevity, appearance (e.g. baldness, obesity), strength, speed,

CC endurance, fertility, and susceptibility or receptivity to particular

CC drugs or therapeutic treatments. The isolated polymorphic nucleic acid

CC segments can also be used to produce medicaments for the treatment or

CC prophylaxis of such diseases

XX

SQ Sequence 23 BP; 8 A; 1 C; 7 G; 7 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.6; DB 1; Length 23;

Best Local Similarity 82.6%; Pred. No. 1.2e+03;

Matches 19; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1354 GAGATGATGAAGATGATCGGAA 1376

DB 1 GAGATGTTGAATGATGTTCTGGAA 23

RESULT 854

AAZ00748/c

ID AAZ00748 standard; DNA; 23 BP.

XX

XX AAZ00748;

XX

XX 07-OCT-1999 (first entry)

XX

DE Human FGFR-4 transmembrane domain PCR primer #2.

XX

KW FGFR-4; transmembrane domain; human; fibroblast growth factor receptor;

KW overexpression; cytostatic; receptor tyrosine kinase inhibitor; cancer;

KW kinase inactive; treatment; prophylaxis; tyrosine kinase-related;

KW hyperproliferation; invasion; disease; carcinoma; metastasis; detection;

KW breast cancer; squamous cell carcinoma; glioblastoma; neuroblastoma;

KW uterine cancer; diagnosis; screening assay; predisposition; mutant;

KW PCR primer; ss.

XX

OS Synthetic.

OS Homo sapiens.

XX

PN WO9937299-A1.

XX

PD 29-JUL-1999.

XX

PF 22-JAN-1999; 99WO-EP000405.

XX

PR 22-JAN-1998; 98DE-01002377.

XX

XX (PLAC) MAX PLANCK GES FOERDERUNG WISSENSCHAFTEN.

PA

PI Ullrich A, Bange J, Knyazev P;

XX

XX WPI; 1999-478980/40.

XX

XX A mutated fibroblast growth factor receptor 4 overexpressed or having

PT altered activity, useful in diagnosis of cancer cells.

XX

XX Example; Page 16; 51pp; German.

XX

PT A mutated fibroblast growth factor receptor 4 overexpressed or having

PT altered activity, useful in diagnosis of cancer cells.

PS Example; Page 16; 51pp; German.

XX

XX This invention describes a novel mutated fibroblast growth factor

CC receptor (FGFR)-4, that causes overexpression and/or altered activity of

CC the receptor in cells and has cytostatic activity. The product of the

CC invention is a receptor tyrosine kinase inhibitor. A receptor tyrosine

CC kinase inhibitor, especially mutated FGFR-4 (kinase inactive) is useful

CC for treatment and/or prophylaxis of over functional receptor tyrosine

CC kinase-related conditions, especially cancer. The inhibitor can also be

CC used to treat cancer and/or hyperproliferation and/or invasion that leads

CC back to disease, particularly carcinoma, particularly through inhibition

CC of metastasis. The inhibitor is used to treat breast cancer, squamous

CC cell carcinoma, glioblastoma, neuroblastoma and/or uterine cancer.

CC Detection of a mutated FGFR-4 or a sequence encoding it, can be used in

CC differential diagnosis of cancer, or in a screening assay to determine a

CC predisposition to developing cancer. This sequence represents a PCR

CC primer used to amplify the FGFR-4 fragment used in the method of the

CC invention

XX

SQ Sequence 23 BP; 7 A; 2 C; 11 G; 3 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.6; DB 1; Length 23;

Best Local Similarity 82.6%; Pred. No. 1.2e+03;

Matches 19; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1009 CACAGATCTCCGGTTCGGCT 1031

DB 23 CAGAGCTCTCCCTCTTCCCTCT 1

RESULT 855

AAZ00750/c

ID AAZ00750 standard; DNA; 23 BP.

XX

XX AAZ00750;

XX

XX 07-OCT-1999 (first entry)

XX

DE Human FGFR-4 transmembrane domain PCR primer #4.

XX

KW FGFR-4; transmembrane domain; human; fibroblast growth factor receptor;

KW overexpression; cytostatic; receptor tyrosine kinase inhibitor; cancer;

KW kinase inactive; treatment; prophylaxis; tyrosine kinase-related;

KW hyperproliferation; invasion; disease; carcinoma; metastasis; detection;

KW breast cancer; squamous cell carcinoma; glioblastoma; neuroblastoma;

KW uterine cancer; diagnosis; screening assay; predisposition; mutant;

KW PCR primer; ss.

XX

OS Synthetic.

OS Homo sapiens.

XX

PN WO9937299-A1.

XX

PD 29-JUL-1999.

XX

PF 22-JAN-1999; 99WO-EP000405.

XX

PR 22-JAN-1998; 98DE-01002377.

XX

XX (PLAC) MAX PLANCK GES FOERDERUNG WISSENSCHAFTEN.

PA

PI Ullrich A, Bange J, Knyazev P;

XX

XX WPI; 1999-478980/40.

XX

XX A mutated fibroblast growth factor receptor 4 overexpressed or having

PT altered activity, useful in diagnosis of cancer cells.

XX

XX Example; Page 16; 51pp; German.

XX

CC This invention describes a novel mutated fibroblast growth factor
 CC receptor (FGFR)-4, that causes overexpression and/or altered activity of
 CC the receptor in cells and has cytostatic activity. The product of the
 CC invention is a receptor tyrosine kinase inhibitor. A receptor tyrosine
 CC kinase inhibitor, especially mutated FGFR-4 (kinase inactive) is useful
 CC for treatment and/or prophylaxis of over functional receptor tyrosine
 CC kinase-related conditions, especially cancer. The inhibitor can also be
 CC used to treat cancer and/or hyperproliferation and/or invasion that leads
 CC back to disease, particularly carcinoma, particularly through inhibition
 CC of metastasis. The inhibitor is used to treat breast cancer, squamous
 CC cell carcinoma, glioblastoma, neuroblastoma and/or uterine cancer.
 CC Detection of a mutated FGFR-4 or a sequence encoding it, can be used in
 CC differential diagnosis of cancer, or in a screening assay to determine a
 CC predisposition to developing cancer. This sequence represents a PCR
 CC primer used to amplify the FGFR-4 fragment used in the method of the
 CC invention
 CC
 XX
 SQ Sequence 23 BP; 7 A; 2 C; 11 G; 3 T; 0 U; 0 Other;
 Query Match 0.4%; Score 16.6; DB 1; Length 23;
 Best Local Similarity 82.6%; Pred. No. 1.2e+03;
 Matches 19; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
 QY 1009 CACAGATCTCCGCTCCCGCT 1031
 Db 23 CAGAGCTCTCCCTCTCCCTCT 1
 RESULT 856
 AAC83579/c
 ID AAC83579 standard; DNA; 23 BP.
 XX
 AC AAC83579;
 XX
 DT 28-FEB-2001 (first entry)
 DE Human FMR1 gene triplet repeat PCR primer NM-BS-for.
 XX
 KW Human; FMR1; FMRP; Fragile X syndrome; methylation; diagnosis;
 KW chromosome Xq27.3; PCR primer; ss.
 XX
 OS Homo sapiens.
 XX
 PN US6143504-A.
 XX
 PD 07-NOV-2000.
 XX
 PF 27-OCT-1999; 99US-00429499.
 XX
 PR 27-OCT-1999; 99US-00429499.
 XX
 PA (ARCH-) ARCH DEV CORP.
 XX
 PI Das S, Ledbetter DH;
 XX
 DR WPI; 2001-006432/01.
 XX
 PT Determining methylation state of FMR1 gene promoter for diagnosing
 PT fragile X syndrome in males involves denaturing DNA sample, subjecting
 PT DNA to bisulfite modification, amplifying DNA and detecting products.
 XX
 PS Claim 17; Col 31; 20pp; English.
 XX
 CC The present invention describes a novel method of diagnosing Fragile X
 CC syndrome using a PCR-based method of methylation analysis. The FMR1 gene
 CC promoter, located at chromosome Xq27.3, is composed of a CGG
 CC trinucleotide repeat. The expansion of this repeat leads to a premutation
 CC and then a full mutation, the latter of which is likely to cause the
 CC methylation of a nearby CpG island, causing the Fragile X syndrome
 CC phenotype. This method is useful in the design of appropriate therapies
 CC and counselling for affected individuals and carriers
 CC
 XX
 SQ Sequence 23 BP; 11 A; 10 C; 0 G; 2 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.6; DB 1; Length 23;
 Best Local Similarity 82.6%; Pred. No. 1.2e+03;
 Matches 19; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
 QY 2328 TGTGTGCGTGTGTGTGTGTGTGT 2350
 Db 23 TTGGGAGTGTGTGTGTGTGTGT 1
 RESULT 857
 AAL48953/c
 ID AAL48953 standard; DNA; 23 BP.
 XX
 AC AAL48953;
 XX
 DT 24-OCT-2002 (first entry)
 DE Hepatitis C virus E1 protein coding sequence PCR primer OVR3.
 XX
 KW Hepatitis C virus; HCV; E1 protein; E2 protein; infection; primer; PCR;
 KW virucide; immunostimulant; vaccine; ss.
 XX
 OS Hepatitis C virus.
 XX
 PN WO200255548-A2.
 XX
 PD 18-JUL-2002.
 XX
 PF 11-JAN-2002; 2002WO-EP000219.
 XX
 PR 11-JAN-2001; 2001US-0260669P.
 PR 30-AUG-2001; 2001US-0315768P.
 XX
 PA (INNO-) INNOGENETICS NV.
 XX
 PI Maertens G, Bosman F, Buyse M;
 XX
 DR WPI; 2002-599657/64.
 XX
 PT New therapeutic vaccine compositions comprising at least one purified
 PT recombinant hepatitis C virus (HCV) single or specific oligomeric
 PT recombinant envelope protein E1 or E2, useful for immunizing humans from
 PT HCV infection.
 XX
 PS Example 8; Page 236; 243pp; English.
 XX
 CC The present invention relates to new therapeutic vaccine compositions for
 CC inducing hepatitis C virus (HCV)-specific antibodies, comprising a
 CC composition containing at least one purified recombinant HCV single or
 CC specific oligomeric recombinant envelope proteins selected from an E1 and
 CC an E2 protein, and optionally a pharmaceutical adjuvant. The vaccines are
 CC useful for inducing HCV-specific antibodies or for immunising humans
 CC against HCV. The recombinant HCV E1 and/or E2 proteins are useful as
 CC vaccines or therapeutics, in HCV screening and confirmatory antibody
 CC tests, for raising antibodies, in the preparation of medicament, and for
 CC in vitro monitoring of HCV disease or prognosing the response to
 CC treatment of patients suffering from HCV infection. The present sequence
 CC is a PCR primer used in the production of vectors in the exemplification
 CC of the invention
 XX
 SQ Sequence 23 BP; 2 A; 8 C; 9 G; 4 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.6; DB 1; Length 23;
 Best Local Similarity 82.6%; Pred. No. 1.2e+03;
 Matches 19; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
 QY 2164 GCCCACCAGCAGTGGGGGCTC 2186
 Db 23 GCGCTACCCAGCAGCGGGAGCTC 1
 RESULT 858

```
ADD69476/c
ID ADD69476 standard; DNA; 23 BP.
XX
AC ADD69476;
XX
DT 15-JAN-2004 (first entry)
XX
DE 3' anchored (ISSR)-PCR primer - SEQ ID 34.
XX
KW inter-simple sequence repeat; ISSR; SSR; PCR; primer; genotyping; plant;
XX animal; Basmati rice; ss.
XX Synthetic.
OS
PN WO2003085133-A2.
XX
PD 16-OCT-2003.
XX
PF 09-JAN-2003; 2003WO-IB000041.
XX
PR 08-APR-2002; 2002IN-CH000260.
XX
PA (DNAP-) CENT DNA FINGERPRINTING & DIAGNOSTICS.
XX
PI Nagaraju JG;
XX
DR WPI; 2003-804317/75.
XX
PT New set of inter-simple sequence repeats (ISSR)-PCR primers for
PT genotyping eukaryotes, useful for genotyping diverse genomes of plant and
PT animal systems.
XX
PS Claim 1; SEQ ID NO 34; 60pp; English.
XX
CC The invention relates to a novel set of inter-simple sequence repeats
CC (ISSR)-PCR primers for genotyping eukaryotes. The primers of the
CC invention may be useful for genotyping diverse genomes of plant and
CC animal systems, in particular for distinguishing Basmati rice varieties
CC from non-Basmati rice varieties and traditional Basmati rice varieties
CC from evolved Basmati rice varieties. The current sequence is that of the
CC 3' anchored (ISSR)-PCR primer of the invention.
XX
SQ Sequence 23 BP; 10 A; 10 C; 2 G; 1 T; 0 U; 0 Other;
Query Match 0.4%; Score 16.6; DB 1; Length 23;
Best Local Similarity 82.6%; Pred. No. 1.2e+03;
Matches 19; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
XX
QY 2309 GCTTTGGTCTGTGTGTGTGTG 2331
DB 23 GCTGTGCATTGTGTGTGTGTG 1
RESULT 859
ADD55614/c
ID ADD55614 standard; DNA; 23 BP.
XX
AC ADD55614;
XX
DT 15-JAN-2004 (first entry)
XX
DE Hepatitis C virus E1/E2 protein-related PCR primer #11.
XX
KW Hepatitis C virus; HCV; vaccine; liver disease; E1 protein; E2 protein;
XX liver fibrosis; ss; PCR; primer.
XX
OS Hepatitis C virus.
XX
PN WO2003051912-A2.
XX
PD 26-JUN-2003.
XX
PF 18-DEC-2002; 2002WO-EP014480.
XX
18-DEC-2001; 2001US-00020510.
16-OCT-2002; 2002US-0418358P.
(INNO-) INNOGENETICS NV.
Maertens G, Depla E, Bosman F;
WPI; 2003-541632/51.
New hepatitis C virus (HCV) vaccine composition, useful for reducing
liver disease, e.g., liver fibrosis in a chronic HCV-infected mammal.
Example 11; SEQ ID NO 106; 271pp; English.
The invention comprises an Hepatitis C virus (HCV) vaccine for reducing
liver disease. The vaccine of the invention comprises an HCV E1 or E2
protein as an antigen. The HCV vaccine is useful for reducing liver
disease (e.g. liver fibrosis) in a chronic HCV-infected mammal. The
present DNA sequence represents a PCR primer that was used in the
exemplification of the invention.
Sequence 23 BP; 2 A; 8 C; 9 G; 4 T; 0 U; 0 Other;
Query Match 0.4%; Score 16.6; DB 1; Length 23;
Best Local Similarity 82.6%; Pred. No. 1.2e+03;
Matches 19; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
QY 2164 GCCCACCCAGCAGTGGGGCTC 2186
DB 23 GCGCTACCCAGCAGCGGAGCTC 1
RESULT 860
ADN35526
ID ADN35526 standard; DNA; 23 BP.
XX
AC ADN35526;
XX
DT 01-JUL-2004 (first entry)
XX
DE Human NSCLC gene semi-quantitative PCR primer forward primer #103.
XX
KW ss; primer; cytostatic; gene therapy; vaccine;
KW non-small cell lung cancer; NSCLC; diagnosis; cancer; URLC1.
XX
OS Homo sapiens.
XX
PN WO2004031413-A2.
XX
PD 15-APR-2004.
XX
PF 22-SEP-2003; 2003WO-JP012072.
XX
PR 30-SEP-2002; 2002US-0414673P.
PR 28-FEB-2003; 2003US-0451374P.
PR 28-APR-2003; 2003US-0466100P.
XX
PA (ONCO-) ONCOTHERAPY SCI INC.
PA (UYTY ) UNIV TOKYO.
XX
PI Nakamura Y, Daigo Y, Nakatsuru S;
XX
DR WPI; 2004-330206/30.
XX
PT Diagnosing, preventing and treating non-small cell lung cancer (NSCLC)
PT comprises determining an expression level of an NSCLC-associated gene in
PT a sample.
XX
PS Disclosure; SEQ ID NO 207; 394pp; English.
XX
CC The invention relates to a method of diagnosing non-small cell lung
CC cancer (NSCLC) or a predisposition to developing NSCLC in a subject by
```

CC determining the expression level of a NSCLC-associated gene in a
CC biological sample derived from the subject, where an increase or decrease
CC of the level compared to a normal control level of the gene indicates
CC that the subject suffers from or is at risk of developing NSCLC. The
CC method is useful in diagnosing NSCLC or a predisposition to developing
CC NSCLC in a subject. The compound, polynucleotide and the encoded
CC polypeptide and composition are useful in treating or preventing NSCLC.
CC This sequence corresponds to a primer for semi-quantitative PCR
CC amplification of genes that are differentially expressed in NSCLC cells.
XX
SQ Sequence 23 BP; 6 A; 4 C; 6 G; 7 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.6; DB 1; Length 23;
Best Local Similarity 82.6%; Pred. No. 1.2e+03;
Matches 19; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2972 AGCAGAGGACCGGGCTTTTCT 2994
Db 1 AGCAGAGGATCAGAGCTTCTTT 23

RESULT 861
ADP71196/c
ID ADP71196 standard; DNA; 23 BP.
XX
AC ADP71196;
DT 23-SEP-2004 (first entry)
XX
DE HCV E1 HCC110A glycosylation site 3 mutagenic primer OVR 3.
XX
KW Hepatitis C virus; HCV; E1 glycoprotein; E2 glycoprotein; HCV infection;
KW liver disease; liver fibrosis; ss; serum alanine aminotransferase level;
KW steatosis; anti-E2 immunoreactivity; PCR; primer.
XX
OS Hepatitis C virus.
OS Synthetic.
XX
PN US2004126395-A1.
XX
PD 01-JUL-2004.
XX
PF 18-DEC-2002; 2002US-00321798.
XX
PR 18-DEC-2001; 2001US-0453708P.
PR 16-OCT-2002; 2002US-0418358P.
XX
PA (MAER/) MAERTENS G.
PA (DEPL/) DEPLA E.
PA (BOSM/) BOSMAN F.
XX
PI Maertens G, Depla E, Bosman F;
XX WPI; 2004-499089/47.
DR
PT Use of hepatitis C virus (HCV) vaccine composition for reducing liver
PT disease, serum alanine aminotransferase levels, steatosis, or anti-E2
PT immunoreactivity in the liver of a chronic HCV-infected mammal.
XX
PS Example 8; SEQ ID NO 106; 176pp; English.
XX
CC The invention relates to the use of a hepatitis C virus (HCV) vaccine
CC composition for reducing liver disease (such as liver fibrosis or its
CC progression), serum alanine aminotransferase (ALT) levels, steatosis, or
CC anti-E2 immunoreactivity in the liver of a chronic HCV-infected mammal,
CC or for treating a chronic HCV-infected mammal. The liver disease is
CC reduced by at least 1-2 points according to the overall Ishak score in
CC the HCV-infected mammal. Also included are a method for predicting
CC changes in liver disease in a chronic HCV-infected mammal, a therapeutic
CC HCV vaccine composition (comprising at least one purified or a
CC combination of at least 2 HCV single or specific oligomeric recombinant
CC envelope protein selected from an E1 or E2 protein, a part of E1 and E2
CC proteins, an E1/E2 protein complex formed from purified HCV single or

CC specific oligomeric recombinant E1 or E2 proteins or its parts and
CC optionally a pharmaceutical adjuvant), a composition (comprising at least
CC one E1 or E2 peptide, and optionally, a pharmaceutical adjuvant), an
CC immunogenic HCV composition (or HCV vaccine composition) comprising a
CC recombinant virus allowing expression of at least one HCV recombinant
CC envelope protein (selected from an E1 protein and/or an E2 protein, and
CC their parts, and optionally, a pharmaceutical adjuvant) and an HCV
CC vaccine composition (comprising a recombinant virus allowing expression
CC of at least one HCV recombinant envelope protein chosen from an E1
CC protein and/or an E2 protein, and parts of the E1 and E2 proteins and,
CC optionally, a pharmaceutical adjuvant. The HCV vaccine composition is
CC useful for reducing liver disease (such as liver fibrosis or its
CC progression), serum ALT levels, steatosis, or anti-E2 immunoreactivity in
CC the liver in a chronic HCV-infected mammal, or for treating a chronic HCV
CC infected mammal, particularly human. The HCV E1 proteins are useful for
CC in vitro monitoring HCV disease or prognosing the response to treatment
CC of patients suffering from HCV infection. The present sequence is a PCR
CC primer used in the production of Glycosylation site-deleted mutants of
CC the HCV E1 protein.
XX
SQ Sequence 23 BP; 2 A; 8 C; 9 G; 4 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.6; DB 1; Length 23;
Best Local Similarity 82.6%; Pred. No. 1.2e+03;
Matches 19; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2164 GCCCACCACGACGATGGGGCTC 2186
Db 23 GCGCTACCACGACGCGGGAGCTC 1

RESULT 862
AAL45613/c
ID AAL45613 standard; DNA; 24 BP.
XX
AC AAL45613;
DT 21-JUN-2002 (first entry)
XX
DE ATP dependent membrane conjugated zinc proteinase 10-45 PCR primer #2.
XX
KW Human; ATP dependent membrane conjugated zinc proteinase 10.45; enzyme;
KW development disturbance; lipid metabolism disease; gene therapy; PCR;
KW primer; ss.
XX
OS Homo sapiens.
XX
PN CN1327066-A.
XX
PD 19-DEC-2001.
XX
PF 05-JUN-2000; 2000CN-00116334.
XX
PR 05-JUN-2000; 2000CN-00116334.
XX
PA (BODE-) BODE GENE DEV CO LTD SHANGHAI.
PI Mao Y, Xie Y;
XX WPI; 2002-206994/27.
DR
PT New polypeptide-human ATP dependent membrane conjugated zinc proteinase
PT 10.45 and polynucleotide for encoding such polypeptide.
XX
PS Example 2; Page 17(Disclosure); 34pp; Chinese.
XX
CC The present invention provides the protein and coding sequences of human
CC ATP dependent membrane conjugated zinc proteinase 10.45. The sequences
CC can be used in the treatment of developmental disturbances and lipid
CC metabolism disease. The present sequence is a PCR primer for the coding
CC sequence of the invention
XX
SQ Sequence 24 BP; 9 A; 3 C; 1 G; 11 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.6; DB 1; Length 24;
Best Local Similarity 82.6%; Pred. No. 1.3e+03;
Matches 19; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2824 ATATATACATATATATATAC 2846
DB 24 ATATATATAAATATGTATATGAC 2

RESULT 863
AAQ33786
ID AAQ33786 standard; DNA; 18 BP.
XX AC AAQ33786;
XX AC
XX 25-MAR-2003 (revised)
XX 02-FEB-1993 (first entry)
XX Microsatellite sequence from clone TGLA189.
XX PCR; selection; primers; OPTIPRIM; breeding; cattle; parentage;
XX genetic mapping; traits; amplification; ss.
XX Bos taurus.
XX OS
XX WO9213102-A1.
XX PN
XX 06-AUG-1992.
XX PD
XX 15-JAN-1992; 92WO-US000340.
XX PF
XX 15-JAN-1991; 91US-00642342.
XX PR
XX (GENM-) GENMARK.
XX PA
XX Georges M, Massey JM;
XX PI
XX WPI; 1992-284684/34.
XX DR
XX Polymorphic bovine DNA markers - used in genetic identification, gene
XX mapping, and selective breeding.
XX PT
XX Table 7; Page 244; 517pp; English.
XX PS
XX The sequence is that of a bovine microsatellite sequence obt'd. by
XX screening a library of bovine WboI DNA fragments of between 250 and 500
XX bp with an (AC)15 and a (TC)15 oligonucleotide probe. One out of 50
XX clones cross-hybridised. Assuming independent distribution of
XX microsatellites and WboI sites, the frequency of (TC)n >9 microsatellites
XX in the bovine genome is estimated at >100, 000. The sequence information
XX for ca. 230 such bovine microsatellites is summarised in the
XX specification and indexed herein (see below). The sequences upstream and
XX downstream of the microsatellite sequence were used to generate the
XX required PCR primers for in vitro amplification of the corresp.
XX microsatellite (using the program OPTIPRIM). The microsatellites may be
XX used to identify individuals, for parentage testing, and in the genetic
XX mapping of economic trait loci, or genes involved the determination of
XX economically important traits esp. in cattle, to allow selective
XX breeding. See also AAQ33501-34437. (Updated on 25-MAR-2003 to correct PN
XX field.)
XX SQ Sequence 18 BP; 1 A; 0 C; 9 G; 8 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2325 GTGTGTGTGCGTGTGTGTGT 2342
DB 1 GTGTGTGTGAGTGTGTGT 18

RESULT 864
AAV21967
ID AAV21967 standard; DNA; 18 BP.
XX AC AAV21967;
XX AC
XX 14-JUL-1998 (first entry)
XX DT
XX Nuclease resistant antisense oligo NBT 140 targeted against (AT)9.
XX DE
XX Nuclease resistant; bacterial infection; antibiotic; target;
XX KW veterinary medicine; treatment; human; industrial process;
XX KW bacterial control; ss.
XX OS
XX Synthetic.
XX OS
XX WO9803533-A1.
XX PN
XX 29-JAN-1998.
XX PD
XX 23-JUL-1997; 97WO-US012961.
XX PF
XX 24-JUL-1996; 96US-00685575.
XX PR
XX (OLIG-) OLIGOS ETC & OLIGOS THERAPEUTICS INC.
XX PA
XX Arrow A, Dale RMK, Thompson TL;
XX PI
XX WPI; 1998-120687/11.
XX DR
XX Treating bacterial infections in humans or animals with
XX PT oligo:nucleotide(s) - resistant to nuclease and targetted to bacterial
XX PT nucleic acid or proteins, also conjugates of these oligo:nucleotide(s)
XX PT with antibiotics.
XX PT
XX Claim 49; Page 87; 163pp; English.
XX PS
XX This antisense oligonucleotide is nuclease resistant and can be used in
XX the treatment of animals, including humans, having a bacterial infection.
XX CC The treatment comprises administration of such nuclease resistant
XX CC oligonucleotides, targeted to a nucleic acid or protein of the bacterium,
XX CC and formulated with a carrier. A compound comprising this nuclease
XX CC resistant oligonucleotide can be covalently linked to an antibiotic. The
XX CC method is used to treat infections by a wide variety of Gram-positive and
XX CC Gram-negative, or acid-fast, bacteria, in human and veterinary medicine.
XX CC The methods are particularly used in immuno-compromised individuals (e.g.
XX CC patients with acquired immunodeficiency syndrome or those receiving
XX CC chemotherapy or radiation therapy), optionally in combination with, or
XX CC fused to, antiviral or other antimicrobial oligonucleotides. Apart from
XX CC therapeutic use, the oligonucleotides can be used to control bacteria in
XX CC laboratory cultures, foods, beverages and industrial processes. The
XX CC oligonucleotides are specific for bacteria, without affecting metabolism
XX CC in mammalian cells. They may also activate RNase H and have a general,
XX CC non-specific immune-stimulating effect. The oligonucleotides can be
XX CC administered orally, intranasally, rectally, topically or by injection,
XX CC optionally coupled to an agent (e.g. carbohydrate or polyamine) that
XX CC enhances cellular uptake
XX SQ Sequence 18 BP; 9 A; 0 C; 0 G; 9 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2824 ATATATACATATATATATAT 2841
DB 1 ATATATATATATATATATAT 18

RESULT 865
AAV21967/c
ID AAV21967 standard; DNA; 18 BP.
XX ID

AAV21967;
 14-JUL-1998 (first entry)
 Nuclease resistant antisense oligo NET 140 targeted against (AT)9.
 Nuclease resistant; bacterial infection; antibiotic; target;
 veterinary medicine; treatment; human; industrial process;
 bacterial control; ss.
 Synthetic.
 WO9803533-A1.
 29-JAN-1998.
 23-JUL-1997; 97WO-US012961.
 24-JUL-1996; 96US-00685575.
 (OLIG-) OLIGOS ETC & OLIGOS THERAPEUTICS INC.
 Arrow A, Dale RMK, Thompson TL;
 WPI; 1998-120687/11.
 Treating bacterial infections in humans or animals with
 oligo:nucleotide(s) - resistant to nuclease and targetted to bacterial
 nucleic acid or proteins, also conjugates of these oligo:nucleotide(s)
 with antibiotics.
 Claim 49; Page 87; 163pp; English.
 This antisense oligonucleotide is nuclease resistant and can be used in
 the treatment of animals, including humans, having a bacterial infection.
 The treatment comprises administration of such nuclease resistant
 oligonucleotides, targeted to a nucleic acid or protein of the bacterium,
 and formulated with a carrier. A compound comprising this nuclease
 resistant oligonucleotide can be covalently linked to an antibiotic. The
 method is used to treat infections by a wide variety of Gram-positive and
 Gram-negative, or acid-fast, bacteria, in human and veterinary medicine.
 The methods are particularly used in immuno-compromised individuals (e.g.
 patients with acquired immunodeficiency syndrome or those receiving
 chemotherapy or radiation therapy), optionally in combination with, or
 fused to, antiviral or other antimicrobial oligonucleotides. Apart from
 therapeutic use, the oligonucleotides can be used to control bacteria in
 laboratory cultures, foods, beverages and industrial processes. The
 oligonucleotides are specific for bacteria, without affecting metabolism
 in mammalian cells. They may also activate RNase H and have a general,
 non-specific immune-stimulating effect. The oligonucleotides can be
 administered orally, intranasally, rectally, topically or by injection,
 optionally coupled to an agent (e.g. carbohydrate or polyamine) that
 enhances cellular uptake
 Sequence 18 BP; 9 A; 0 C; 0 G; 9 T; 0 U; 0 Other;
 Query Match 0.4%; Score 16.4; DB 1; Length 18;
 Best Local Similarity 94.4%; Pred. No. 1e+03;
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 2824 ATATATACATATATATAT 2841
 18 ATATATATATATATAT 1
 Db
 RESULT 866
 AAX19941
 ID AAX19941 standard; DNA; 18 BP.
 AC AAX19941;
 XX 14-JUN-1999 (first entry)
 DT
 PT
 XX

AAV21967;
 14-JUL-1998 (first entry)
 Nuclease resistant antisense oligo NET 140 targeted against (AT)9.
 Nuclease resistant; bacterial infection; antibiotic; target;
 veterinary medicine; treatment; human; industrial process;
 bacterial control; ss.
 Synthetic.
 WO9803533-A1.
 29-JAN-1998.
 23-JUL-1997; 97WO-US012961.
 24-JUL-1996; 96US-00685575.
 (OLIG-) OLIGOS ETC & OLIGOS THERAPEUTICS INC.
 Arrow A, Dale RMK, Thompson TL;
 WPI; 1998-120687/11.
 Treating bacterial infections in humans or animals with
 oligo:nucleotide(s) - resistant to nuclease and targetted to bacterial
 nucleic acid or proteins, also conjugates of these oligo:nucleotide(s)
 with antibiotics.
 Claim 49; Page 87; 163pp; English.
 This antisense oligonucleotide is nuclease resistant and can be used in
 the treatment of animals, including humans, having a bacterial infection.
 The treatment comprises administration of such nuclease resistant
 oligonucleotides, targeted to a nucleic acid or protein of the bacterium,
 and formulated with a carrier. A compound comprising this nuclease
 resistant oligonucleotide can be covalently linked to an antibiotic. The
 method is used to treat infections by a wide variety of Gram-positive and
 Gram-negative, or acid-fast, bacteria, in human and veterinary medicine.
 The methods are particularly used in immuno-compromised individuals (e.g.
 patients with acquired immunodeficiency syndrome or those receiving
 chemotherapy or radiation therapy), optionally in combination with, or
 fused to, antiviral or other antimicrobial oligonucleotides. Apart from
 therapeutic use, the oligonucleotides can be used to control bacteria in
 laboratory cultures, foods, beverages and industrial processes. The
 oligonucleotides are specific for bacteria, without affecting metabolism
 in mammalian cells. They may also activate RNase H and have a general,
 non-specific immune-stimulating effect. The oligonucleotides can be
 administered orally, intranasally, rectally, topically or by injection,
 optionally coupled to an agent (e.g. carbohydrate or polyamine) that
 enhances cellular uptake
 Sequence 18 BP; 9 A; 0 C; 0 G; 9 T; 0 U; 0 Other;
 Query Match 0.4%; Score 16.4; DB 1; Length 18;
 Best Local Similarity 94.4%; Pred. No. 1e+03;
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 2824 ATATATACATATATATAT 2841
 18 ATATATATATATATAT 1
 Db
 RESULT 866
 AAX19941
 ID AAX19941 standard; DNA; 18 BP.
 AC AAX19941;
 XX 14-JUN-1999 (first entry)
 DT
 PT
 XX

DE Primer SEQ ID NO:1 from JP11075880.
 XX Primer; oligonucleotide; labelling; detection; self-priming; PCR; ss.
 KW Synthetic.
 XX
 OS
 XX JP11075880-A.
 PN
 XX 23-MAR-1999.
 PD
 XX 10-JUL-1998; 98JP-00195719.
 PF
 XX 14-JUL-1997; 97JP-00205378.
 PR
 XX (KAGA) ZH KAGAKU & KESSEI RYOHO KENKYUSHO.
 PA
 XX WPI; 1999-257710/22.
 DR
 XX Labelling of an oligonucleotide - useful for detecting genes.
 PT
 XX Example 1; Page 7; 10pp; Japanese.
 PS
 XX A method has been developed for labelling an oligonucleotide having a
 CC repeated sequence of (XY)n (where X and Y consists of a combination of
 CC adenine and thymine or uracil or guanine and cytosine, and n is an
 CC integer of 1 or more) at the 3'-terminal side in which the repeated
 CC sequence is added and extended using a labelled body of the nucleotide
 CC constituting the repeated sequence and a DNA polymerase lacking in 5' to
 CC 3' exonuclease activity. The method can be used for detecting a gene. The
 CC method can detect a gene in a sensitivity up to ten times higher than
 CC prior art methods. The present sequence represents a primer used in an
 CC example from the present invention
 CC
 XX Sequence 18 BP; 9 A; 0 C; 0 G; 9 T; 0 U; 0 Other;
 SQ
 Query Match 0.4%; Score 16.4; DB 1; Length 18;
 Best Local Similarity 94.4%; Pred. No. 1e+03;
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 2823 TATATATACATATATATA 2840
 1 TATATATATATATATA 18
 Db
 RESULT 867
 AAX19941/C
 ID AAX19941 standard; DNA; 18 BP.
 XX
 AC AAX19941;
 XX
 XX 14-JUN-1999 (first entry)
 DT
 XX
 DE Primer SEQ ID NO:1 from JP11075880.
 XX
 XX Primer; oligonucleotide; labelling; detection; self-priming; PCR; ss.
 KW Synthetic.
 OS
 XX JP11075880-A.
 PN
 XX 23-MAR-1999.
 PD
 XX 10-JUL-1998; 98JP-00195719.
 PF
 XX 14-JUL-1997; 97JP-00205378.
 PR
 XX (KAGA) ZH KAGAKU & KESSEI RYOHO KENKYUSHO.
 PA
 XX WPI; 1999-257710/22.
 DR
 XX Labelling of an oligonucleotide - useful for detecting genes.
 PT
 XX Example 1; Page 7; 10pp; Japanese.
 PS

XX A method has been developed for labelling an oligonucleotide having a
 CC repeated sequence of (XY)_n (where X and Y consists of a combination of
 CC adenine and thymine or uracil or guanine and cytosine, and n is an
 CC integer of 1 or more) at the 3'-terminal side in which the repeated
 CC sequence is added and extended using a labelled body of the nucleotide
 CC constituting the repeated sequence and a DNA polymerase lacking in 5' to
 CC 3' exonuclease activity. The method can be used for detecting a gene. The
 CC method can detect a gene in a sensitivity up to ten times higher than
 CC prior art methods. The present sequence represents a primer used in an
 CC example from the present invention

XX Sequence 18 BP; 9 A; 0 C; 0 G; 9 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.4; DB 1; Length 18;

Best Local Similarity 94.4%; Pred. No. 1e+03; Mismatches 0; Gaps 0;

Matches 17; Conservative 0; Indels 1; Indels 0; Gaps 0;

QY 2823 TATATATACATATATATA 2840

Db 18 TATATATATATATATA 1

RESULT 868

AAAX77484/C

ID AAX77484 standard; DNA; 18 BP.

XX AC AAX77484;

XX DT 05-AUG-1999 (first entry)

XX US5912147 primer 28.

XX Primer; quantitation; genetic instability; tumour cell; detection;
 KW neoplastic transformation; carcinogenesis; ss.

XX Synthetic.

XX US5912147-A.

XX 15-JUN-1999.

XX 22-OCT-1996; 96US-00734973.

XX 22-OCT-1996; 96US-00734973.

XX (HEAL-) HEALTH RES INC.

XX Anderson G, Stoler D, Basik M;

XX WPI; 1999-357197/30.

XX Quantitating genetic instability.

XX Claim 4; Col 27-28; 27pp; English.

XX This invention describes a novel method for quantitating genetic
 CC instability independent of microsatellite alterations by treating a
 CC comparison pair comprising genomic DNA from tumour cells and genomic DNA
 CC from normal cells. The method involves the cells from the same individual
 CC with oligonucleotide primers selected from (i) a nucleotide sequence
 CC (CG)_nRG, where R is a purine selected from adenine and guanine and x = 3-
 CC 7, (ii) a nucleotide sequence (CG)_nXY, where R is as in (i) and Y is a
 CC pyrimidine selected from cytosine, thymine, and uracil and x = 3-7, (iii)
 CC a nucleotide sequence (CG)_nXRR, where R is as in (i) and x = 3-7, (iv) a
 CC nucleotide sequence (CG)_nXY, where Y is a pyrimidine selected from
 CC cytosine, thymine, and uracil and x = 3-7, (v) a nucleotide sequence
 CC (CA)_nRG, where R is a purine selected from adenine and guanine and x = 6-
 CC 16, (vi) a nucleotide sequence (CA)_nXRY, where R is a purine selected from
 CC adenine and guanine and Y is a pyrimidine selected from cytosine,
 CC thymine, and uracil, and x = 6-16, (vii) a nucleotide sequence (CA)_nXRR,
 CC where R is a purine selected from adenine and guanine and x = 6-16,
 CC (viii) a nucleotide sequence (CA)_nXY, where Y is a pyrimidine selected

CC from cytosine, thymine, and uracil and x = 6-16, and (ix) a combination
 CC of the primers. The method is useful for detecting genomic instability
 CC which are commonly associated with the various stages of neoplastic
 CC transformation and carcinogenesis. The method is rapid and simple

XX Sequence 18 BP; 10 A; 8 C; 0 G; 0 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.4; DB 1; Length 18;

Best Local Similarity 94.4%; Pred. No. 1e+03; Mismatches 0; Gaps 0;

Matches 17; Conservative 0; Indels 1; Indels 0; Gaps 0;

QY 2316 TCTGTGTGTGTGTGTG 2333

Db 18 TTGTGTGTGTGTGTG 1

RESULT 869

AAAX77457/C

ID AAX77457 standard; DNA; 18 BP.

XX AC AAX77457;

XX DT 05-AUG-1999 (first entry)

XX US5912147 primer 1.

XX Primer; quantitation; genetic instability; tumour cell; detection;
 KW neoplastic transformation; carcinogenesis; ss.

XX Synthetic.

XX US5912147-A.

XX 15-JUN-1999.

XX 22-OCT-1996; 96US-00734973.

XX 22-OCT-1996; 96US-00734973.

XX (HEAL-) HEALTH RES INC.

XX Anderson G, Stoler D, Basik M;

XX WPI; 1999-357197/30.

XX Quantitating genetic instability.

XX Claim 4; Col 15-16; 27pp; English.

XX This invention describes a novel method for quantitating genetic
 CC instability independent of microsatellite alterations by treating a
 CC comparison pair comprising genomic DNA from tumour cells and genomic DNA
 CC from normal cells. The method involves the cells from the same individual
 CC with oligonucleotide primers selected from (i) a nucleotide sequence
 CC (CG)_nRG, where R is a purine selected from adenine and guanine and x = 3-
 CC 7, (ii) a nucleotide sequence (CG)_nXRY, where R is as in (i) and Y is a
 CC pyrimidine selected from cytosine, thymine, and uracil and x = 3-7, (iii)
 CC a nucleotide sequence (CG)_nXRR, where R is as in (i) and x = 3-7, (iv) a
 CC nucleotide sequence (CG)_nXY, where Y is a pyrimidine selected from
 CC cytosine, thymine, and uracil and x = 3-7, (v) a nucleotide sequence
 CC (CA)_nRG, where R is a purine selected from adenine and guanine and x = 6-
 CC 16, (vi) a nucleotide sequence (CA)_nXRY, where R is a purine selected from
 CC adenine and guanine and Y is a pyrimidine selected from cytosine,
 CC thymine, and uracil, and x = 6-16, (vii) a nucleotide sequence (CA)_nXRR,
 CC where R is a purine selected from adenine and guanine and x = 6-16,
 CC (viii) a nucleotide sequence (CA)_nXY, where Y is a pyrimidine selected
 CC from cytosine, thymine, and uracil and x = 6-16, and (ix) a combination
 CC of the primers. The method is useful for detecting genomic instability
 CC which are commonly associated with the various stages of neoplastic
 CC transformation and carcinogenesis. The method is rapid and simple

XX Sequence 18 BP; 9 A; 8 C; 1 G; 0 T; 0 U; 0 Other;

```

Query Match      0.4%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2334 CCGTGTGCTGTGTGTGTG 2351
Db 18 CTTGTGTGTGTGTGTGTG 1

RESULT 870
AAI64450/C
ID AAI64450 standard; DNA; 18 BP.
XX
AC AAI64450;
XX
DT 23-NOV-2001 (first entry)
XX
DE SSR motif #10.
XX
KW Simple Sequence Repeat; SSR; clover; microsatellite; genome mapping;
KW trait mapping; marker-assisted selection; gene selection; legume;
KW DNA profiling; breeding; ds.
XX
OS Unidentified.
XX
PN NZ509194-A.
XX
PD 25-MAY-2001.
XX
PF 03-JAN-2001; 2001NZ-00509194.
XX
PR 24-DEC-1999; 99AU-00004907.
XX
PR 28-MAR-2000; 2000AU-00006520.
XX
PA (AGRI-) AGRIC VICTORIA SERVICES PTY LTD.
XX
PI Koelliker R, Forster JW;
XX
DR WPI; 2001-431058/46.
XX
PT Novel simple sequence repeats in clover species useful for selection of
PT genes in legume breeding, for profiling legume species varieties and for
PT testing the purity of legume seed batches.
XX
PS Claim 6; Page 35; 52pp; English.
XX
CC The present invention relates to Simple Sequence Repeats (SSRs) from
CC clover species. SSRs, also called microsatellites, are based on a 1-7
CC nucleotide core element which is tandemly repeated. The SSR array is
CC embedded in complex flanking DNA. SSRs are ideal markers for genome
CC mapping, trait mapping and marker-assisted selection. The SSRs may be
CC used in methods for selecting genes in clover/ legume breeding. The SSRs
CC are also useful for DNA profiling of clover varieties and for testing the
CC purity of legume seed batches. The present sequence is a SSR motif, which
CC was used in the present invention
XX
SQ Sequence 18 BP; 8 A; 10 C; 0 G; 0 T; 0 U; 0 Other;

Query Match      0.4%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2328 TGTGTGGTGTGTGTGTG 2345
Db 18 TGTGTGGTGTGTGTGTG 1

RESULT 871
ABL38718
ID ABL38718 standard; DNA; 18 BP.
XX
AC ABL38718;
XX

Query Match      0.4%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2324 ATATATACATATATATAT 2841
Db 1 ATATATATATATATAT 18

RESULT 872
ABL38718/C
ID ABL38718 standard; DNA; 18 BP.
XX
AC ABL38718;
XX
DT 16-APR-2002 (first entry)
XX
DE Immunostimulatory nucleic acid SEQ ID NO: 85.
XX
KW Antibody-induced cell lysis; cancer; immunostimulatory; CD20;
XX
OS Synthetic.
XX
FH Key Location/Qualifiers
FT modified_base 1..18
FT /*tag= a
FT /mod_base= OTHER
FT /note= "phosphorothioate backbone"
XX
PN WO200197843-A2.
XX
PD 27-DEC-2001.
XX
PF 22-JUN-2001; 2001WO-US020154.
XX
PR 22-JUN-2000; 2000US-0213346P.
XX
PA (IOWA ) UNIV IOWA RES FOUND.
XX
PI Weiner G, Hartmann G;
XX
DR WPI; 2002-154611/20.
XX
PT Treating or preventing cancer, such as basal cell carcinoma, comprises
PT administering immunostimulatory nucleic acids that induce expression of
PT cell surface antigens and antibodies to a subject having or at risk of
PT developing cancer.
XX
PS Disclosure; Page 116; 312pp; English.
XX
CC The present invention relates to methods for treating or preventing
CC cancer, involving administering to a subject having or at risk of
CC developing cancer immunostimulatory nucleic acids that induce expression
CC of cell surface antigens and antibodies. The methods are useful for
CC treating or preventing cancer such as basal cell carcinoma, bladder
CC cancer, bone cancer, brain and central nervous system (CNS) cancer,
CC breast cancer, cervical cancer, colon and rectum cancer, connective
CC tissue cancer, oesophageal cancer, eye cancer, kidney cancer, larynx
CC cancer, leukaemia, liver cancer, lung cancer, Hodgkin's lymphoma, non-
CC Hodgkin's lymphoma, melanoma, myeloma, oral cavity cancer, ovarian
CC cancer, pancreatic cancer, prostate cancer, rhabdomyosarcoma, skin
CC cancer, stomach cancer, testicular cancer, and uterine cancer. The
CC present sequence is an immunostimulatory oligonucleotide described in the
CC exemplification of the invention
XX
SQ Sequence 18 BP; 9 A; 0 C; 0 G; 9 T; 0 U; 0 Other;

Query Match      0.4%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2824 ATATATACATATATATAT 2841
Db 1 ATATATATATATATAT 18

RESULT 872
ABL38718/C
ID ABL38718 standard; DNA; 18 BP.
XX
AC ABL38718;
XX
DT 16-APR-2002 (first entry)
XX
DE Immunostimulatory nucleic acid SEQ ID NO: 85.
XX
KW Antibody-induced cell lysis; cancer; immunostimulatory; CD20;
```

KW angiogenesis; metastasis; cytostatic; phosphorothioate backbone; ss.
 XX Synthetic.
 XX Key Location/Qualifiers
 FH modified_base 1..18
 FT /*tag= a
 FT /mod_base= OTHER
 FT /note= "phosphorothioate backbone"
 XX WO200197843-A2.
 PN 27-DEC-2001.
 XX 22-JUN-2001; 2001WO-US020154.
 XX 22-JUN-2000; 2000US-0213346P.
 XX (IOWA) UNIV IOWA RES FOUND.
 PA Weiner G, Hartmann G;
 XX WPI; 2002-154611/20.
 XX Treating or preventing cancer, such as basal cell carcinoma, comprises
 PT administering immunostimulatory nucleic acids that induce expression of
 PT cell surface antigens and antibodies to a subject having or at risk of
 PT developing cancer.
 XX Disclosure; Page 116; 312pp; English.
 XX The present invention relates to methods for treating or preventing
 CC cancer, involving administering to a subject having or at risk of
 CC developing cancer immunostimulatory nucleic acids that induce expression
 CC of cell surface antigens and antibodies. The methods are useful for
 CC treating or preventing cancer such as basal cell carcinoma, bladder
 CC cancer, bone cancer, brain and central nervous system (CNS) cancer,
 CC breast cancer, cervical cancer, colon and rectum cancer, connective
 CC tissue cancer, esophageal cancer, eye cancer, kidney cancer, larynx
 CC cancer, leukaemia, liver cancer, lung cancer, Hodgkin's lymphoma, non-
 CC Hodgkin's lymphoma, melanoma, myeloma, oral cavity cancer, ovarian
 CC cancer, pancreatic cancer, prostate cancer, rhabdomyosarcoma, skin
 CC cancer, stomach cancer, testicular cancer, and uterine cancer. The
 CC present sequence is an immunostimulatory oligonucleotide described in the
 CC exemplification of the invention
 XX Sequence 18 BP; 9 A; 0 C; 0 G; 9 T; 0 U; 0 Other;
 SQ Query Match 0.4%; Score 16.4; DB 1; Length 18;
 Best Local Similarity 94.4%; Pred. NO. 1e+03;
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 2824 ATATATACATATATATAT 2841
 DB 18 ATATATATATATATATAT 1
 RESULT 873
 ABX79779
 ID ABX79779 standard; cDNA; 18 BP.
 XX ABX79779;
 XX 17-APR-2003 (first entry)
 XX EST polymorphic DNA repeat polynucleotide #104.
 XX EST; expressed sequence tag; ss; polymorphic repeat; tandem repeat;
 KW polymorphic marker prediction of ubiquitous simple sequences; POMPOUS;
 KW Rep-X; human; genetic disease; drug-treatment; Machado-Joseph;
 KW Haw River syndrome; Huntington's disease; fragile-X syndrome;
 KW Friedrich's ataxia; myotonic dystrophy; hyperandrogenaemia;
 KW spinal atrophy; bulbar atrophy; spinocerebellar ataxia.

XX Homo sapiens.
 XX US6472154-B1.
 PN 29-OCT-2002.
 XX 31-DEC-1999; 99US-00475947.
 XX 31-DEC-1999; 99US-00475947.
 XX (TEXA) UNIV TEXAS SYSTEM.
 XX Garner HR, Wren JD, Minna JD, Fondon JW;
 PI WPI; 2003-208818/20.
 XX Identifying a candidate polymorphic repeat within a coding sequence, for
 PT understanding or treating genetic disease, comprises detecting tandem
 PT repeats in a target coding sequence and scoring the repeats for
 PT polymorphic probability.
 XX Example; Col 385; 588pp; English.
 XX The invention discloses a method for identifying a candidate polymorphic
 CC repeat within a coding sequence (expressed sequence tag, EST), which
 CC comprises detecting tandem repeats in a target coding sequence, scoring
 CC the repeats for polymorphic probability and generating a dataset
 CC correlating the repeats with polymorphic probability to identify a
 CC candidate polymorphic repeat. The computational methods (polymorphic
 CC marker prediction of ubiquitous simple sequences, POMPOUS, and Rep-X) are
 CC useful for identifying and detecting candidate polymorphic repeats in
 CC human genes, which can be used to understand, treat or eliminate genetic
 CC diseases, predispositions or adverse drug-treatment reactions. Examples
 CC of diseases linked to nucleotide repeats are Machado-Joseph, Haw River
 CC syndrome, Huntington's disease, fragile-X syndrome, Friedrich's ataxia,
 CC myotonic dystrophy, hyperandrogenaemia, spinal and bulbar atrophy and
 CC spinocerebellar ataxia. The sequences presented in ABX79676-ABX80022 are
 CC the polymorphic repeats identified for a search of human ESTs
 XX Sequence 18 BP; 8 A; 0 C; 1 G; 9 T; 0 U; 0 Other;
 SQ Query Match 0.4%; Score 16.4; DB 1; Length 18;
 Best Local Similarity 94.4%; Pred. NO. 1e+03;
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 2822 GTATATATACATATATAT 2839
 DB 1 GTATATATATATATATAT 18
 RESULT 874
 ADH70642/C
 ID ADH70642 standard; DNA; 19 BP.
 XX ADH70642;
 XX 25-MAR-2004 (first entry)
 XX Human Vbeta gene repeat sequence #432.
 XX human; T-cell associated disease; Vbeta; autoimmune disease;
 KW degenerative nervous system disease; graft versus host disease;
 KW hypersensitivity disease; infectious disease; neoplastic disease;
 KW Addison's disease; atrophic gastritis;
 KW degenerative nervous system disease; multiple sclerosis;
 KW Alzheimer's disease; hypersensitivity disease; type I hypersensitivity;
 KW allergy; type II hypersensitivity; Goodpasture's syndrome;
 KW type IV hypersensitivity; leprosy; infectious disease; viral infection;
 KW HIV; fungal infection; Candida; parasitic infection; schistosoma;
 KW filaria; bacterial infection; Mycobacterium; neoplastic disease;
 KW lymphoproliferative disease; leukaemia; lymphoma; cancer; brain cancer;
 KW breast cancer; ds.

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XX OS Homo sapiens.
XX PN US2002150891-A1.
XX PD 17-OCT-2002.
XX PF 05-MAR-1999; 99US-00263959.
XX PR 19-SEP-1994; 94US-00309335.
XX PR 19-SEP-1995; 95US-00531241.
XX PA (HOOD/) HOOD L E.
XX PA (ROWE/) ROWEN L.
XX PI Hood LE, Rowen L;
XX PI WPI; 2004-059052/06.
XX DR
XX PT Kit for diagnosing and treating T-cell associated diseases e.g.
XX PT autoimmune, degenerative nervous system and infectious disease, comprises
XX PT nucleic acid primers specifically priming and allowing amplification of a
XX PT Vbeta gene.
XX PS Disclosure; SEQ ID NO 836; 164pp; English.
XX CC The invention relates to a kit for diagnosing and treating T-cell
XX CC associated diseases which comprises a panel of nucleic acid primers
XX CC specifically priming and allowing amplification of each Vbeta gene,
XX CC VbetARNA or cDNA. The kit is useful for diagnosing organ transplant
XX CC rejection and diagnosing and treating T-cell associated diseases
XX CC including autoimmune diseases, degenerative nervous system diseases,
XX CC graft versus host disease, hypersensitivity diseases, infectious diseases
XX CC and neoplastic diseases. Autoimmune diseases include Addison's disease,
XX CC atrophic gastritis. Degenerative nervous system diseases include multiple
XX CC sclerosis and Alzheimer's disease. Hypersensitivity diseases include Type
XX CC I hypersensitivities such as contact with allergens that lead to
XX CC allergies, Type II hypersensitivities such as those present in
XX CC Goodpasture's syndrome and Type IV hypersensitivities such as those
XX CC manifested in leprosy. Infectious diseases include viral infections
XX CC caused by viruses such as HIV, fungal infections such as those caused by
XX CC the yeast genus Candida, parasitic infections such as those caused by
XX CC schistosomes, filaria and bacterial infections such as those caused by
XX CC Mycobacterium. Neoplastic diseases include lymphoproliferative diseases
XX CC such as leukaemias, lymphomas and cancers such as cancer of the brain,
XX CC breast. The present sequence represents a Vbeta gene repeat sequence.
XX SQ Sequence 19 BP; 10 A; 0 C; 0 G; 9 T; 0 U; 0 Other;
XX Query Match 0.4%; Score 16.4; DB 1; Length 19;
XX Best Local Similarity 94.4%; Pred. No. 1.1e+03;
XX Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 3463 TATATATATCTATATATA 3480
DB 18 TATATATATTATATATA 1
RESULT 875
AAH91916/c
XX AAH91916 standard; DNA; 19 BP.
XX AC AAH91916;
XX DT 09-OCT-2001 (first entry)
XX DE Human inflammatory bowel disease associated polymorphic site #991.
XX KW Human; inflammatory bowel disease; Crohn's disease; ulcerative colitis;
XX KW single nucleotide polymorphism; SNP; chromosome 19p13; paternity test;
XX KW chromosome 5q31-33; forensic test; gene therapy; ds.
XX OS Homo sapiens.
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XX Key Location/Qualifiers
FH misc_feature 10
FT /*tag= a
FT /note= "SNP, optionally T or C at this position"
XX WO200142511-A2.
XX PD 14-JUN-2001.
XX PF 11-DEC-2000; 2000WO-US033632.
XX PR 10-DEC-1999; 99US-0170257P.
XX PR 10-APR-2000; 2000US-0196046P.
XX (WHED ) WHITEHEAD INST BIOMEDICAL RES.
XX (ELLI-) ELLIPSIS BIOTHERAPEUTICS CORP.
XX Daly M, Hudson TJ, Lander ES, Rioux J, Siminovitch K;
XX WPI; 2001-367874/38.
XX DR
XX PT Testing for the presence of polymorphisms associated with inflammatory
XX PT bowel disease, using a hybridization assay.
XX PS Claim 1; Page 80; 463pp; English.
XX CC The present invention describes a method for detecting the presence of
XX CC polymorphisms associated with inflammatory bowel diseases such as
XX CC ulcerative colitis and Crohn's disease. The methods can be used to detect
XX CC the presence of genetic polymorphisms associated with inflammatory bowel
XX CC disease and correlating their occurrence with disease states. They may be
XX CC used in this way for phenotypic correlations, forensics, paternity
XX CC testing, medicine and genetic analysis. The present sequence is a
XX CC polymorphic site described in the exemplification of the invention
XX SQ Sequence 19 BP; 3 A; 7 C; 5 G; 3 T; 0 U; 1 Other;
XX Query Match 0.4%; Score 16.4; DB 1; Length 19;
XX Best Local Similarity 89.5%; Pred. No. 1.1e+03;
XX Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 255 CAAGAAGCTGCTGGCGGTG 273
DB 19 CAAGAGGCTCTGGCGGTG 1
RESULT 876
ADE29900
XX ID ADE29900 standard; RNA; 19 BP.
XX AC ADE29900;
XX DT 29-JAN-2004 (first entry)
XX DE Mitogen activated protein kinase siNA oligonucleotide SEQ ID NO:522.
XX KW short interfering nucleic acid; siNA; downregulation; inhibition;
XX KW mitogen-activated protein kinase; MAP kinase; MAPK; RNA interference;
XX KW cytosolic; anorectic; antidiabetic; antiinflammatory; antiasthmatic;
XX KW immunosuppressive; antibacterial; antirheumatic; antiarthritic;
XX KW antipsoriatic; gastrointestinal; obesity; diabetes; tumour;
XX KW inflammatory disease; asthma; septic shock; rheumatoid arthritis;
XX KW psoriasis; inflammatory bowel disease; drug screening;
XX KW genetic engineering; pharmacogenomic; gene mapping; ss.
XX OS Synthetic.
XX PN WO2003072590-A1.
XX PD 04-SEP-2003.
XX DT 28-JAN-2003; 2003WO-US002510.
```

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XX PR 20-FEB-2002; 2002US-0358580P.
XX PR 11-MAR-2002; 2002US-0363124P.
XX PR 06-JUN-2002; 2002US-0386782P.
XX PR 29-AUG-2002; 2002US-0406784P.
XX PR 05-SEP-2002; 2002US-0408378P.
XX PR 03-SEP-2002; 2002US-0409293P.
XX PR 15-JAN-2003; 2003US-0440129P.
XX PA (SIRN-) SIRNA THERAPEUTICS INC.
XX PI Mcswiggen J, Beigelman L, Usman N, Haerberli P, Chowrira B;
XX XX WPI; 2003-689980/65.
XX XX
XX PT New short interfering nucleic acid, useful e.g. for treatment and
XX PT diagnosis of cancer, downregulates expression of mitogen-activated
XX PT protein kinase genes.
XX PS Example 3; SEQ ID NO 522; 164pp; English.
XX CC The present invention describes a short interfering nucleic acid (siNA)
XX CC that downregulates expression of a mitogen-activated protein kinase
XX CC (MAPK) genes by RNA interference. Also described: (1) a method for
XX CC modulating expression of MAPK genes in cells, tissue explants or
XX CC organisms by introduction of siNA; (2) kits for in vitro or in vivo
XX CC delivery of siNA; (3) conjugates and/or complexes of siNA; and (4)
XX CC vectors that express siNA and cells containing these vectors. MAPK siNAs
XX CC have cytostatic, anorectic, antidiabetic, antiinflammatory,
XX CC antiasthmatic, immunosuppressive, antibacterial, antirheumatic,
XX CC antiarthritic, antipsoriatic and gastrointestinal activities. The MAPK
XX CC siNAs can be used to modulate the expression of MAPK genes, in cells,
XX CC tissue explants or organisms, e.g. for treating obesity; diabetes types I
XX CC and II; a wide range of tumours, and inflammatory diseases (asthma,
XX CC septic shock, rheumatoid arthritis, psoriasis and inflammatory bowel
XX CC disease). They can also be used for drug screening; diagnosis; target
XX CC identification and validation; genetic engineering; pharmacogenomics;
XX CC studying gene function and gene mapping (e.g. of single-nucleotide
XX CC polymorphisms). The present sequence represents a MAPK siNA which is used
XX CC in the exemplification of the present invention.
XX XX Sequence 19 BP; 3 A; 5 C; 8 G; 0 T; 3 U; 0 Other;
XX SQ
Query Match 0.4%; Score 16.4; DB 1; Length 19;
Best Local Similarity 83.3%; Pred. No. 1.1e+03;
Matches 15; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
QY 2905 GGCAGGCATGGCCCTGGG 2922
DB 1 GGCAGGCAUGGCCUCGAG 18
RESULT 877
ADE29795/c
ID ADE29795 standard; RNA; 19 BP.
XX AC ADE29795;
XX XX
XX DT 29-JAN-2004 (first entry)
XX DE Mitogen activated protein kinase siNA oligonucleotide SEQ ID NO:417.
XX KW short interfering nucleic acid; siNA; downregulation; inhibition;
XX KW mitogen-activated protein kinase; MAP kinase; MAPK; RNA interference;
XX KW cytostatic; anorectic; antidiabetic; antiinflammatory; antiasthmatic;
XX KW immunosuppressive; antibacterial; antirheumatic; antiarthritic;
XX KW antipsoriatic; gastrointestinal; obesity; diabetes; tumour;
XX KW inflammatory disease; asthma; septic shock; rheumatoid arthritis;
XX KW psoriasis; inflammatory bowel disease; drug screening;
XX KW genetic engineering; pharmacogenomic; gene mapping; ss.
XX OS Synthetic.
XX XX

PN WO2003072590-A1.
XX PD 04-SEP-2003.
XX XX
XX PF 28-JAN-2003; 2003WO-US002510.
XX XX
XX PR 20-FEB-2002; 2002US-0358580P.
XX PR 11-MAR-2002; 2002US-0363124P.
XX PR 06-JUN-2002; 2002US-0386782P.
XX PR 29-AUG-2002; 2002US-0406784P.
XX PR 05-SEP-2002; 2002US-0408378P.
XX PR 03-SEP-2002; 2002US-0409293P.
XX PR 15-JAN-2003; 2003US-0440129P.
XX XX
XX PA (SIRN-) SIRNA THERAPEUTICS INC.
XX XX
XX PI Mcswiggen J, Beigelman L, Usman N, Haerberli P, Chowrira B;
XX XX WPI; 2003-689980/65.
XX XX
XX PT New short interfering nucleic acid, useful e.g. for treatment and
XX PT diagnosis of cancer, downregulates expression of mitogen-activated
XX PT protein kinase genes.
XX PS Example 3; SEQ ID NO 417; 164pp; English.
XX CC The present invention describes a short interfering nucleic acid (siNA)
XX CC that downregulates expression of a mitogen-activated protein kinase
XX CC (MAPK) genes by RNA interference. Also described: (1) a method for
XX CC modulating expression of MAPK genes in cells, tissue explants or
XX CC organisms by introduction of siNA; (2) kits for in vitro or in vivo
XX CC delivery of siNA; (3) conjugates and/or complexes of siNA; and (4)
XX CC vectors that express siNA and cells containing these vectors. MAPK siNAs
XX CC have cytostatic, anorectic, antidiabetic, antiinflammatory,
XX CC antiasthmatic, immunosuppressive, antibacterial, antirheumatic,
XX CC antiarthritic, antipsoriatic and gastrointestinal activities. The MAPK
XX CC siNAs can be used to modulate the expression of MAPK genes, in cells,
XX CC tissue explants or organisms, e.g. for treating obesity; diabetes types I
XX CC and II; a wide range of tumours, and inflammatory diseases (asthma,
XX CC septic shock, rheumatoid arthritis, psoriasis and inflammatory bowel
XX CC disease). They can also be used for drug screening; diagnosis; target
XX CC identification and validation; genetic engineering; pharmacogenomics;
XX CC studying gene function and gene mapping (e.g. of single-nucleotide
XX CC polymorphisms). The present sequence represents a MAPK siNA which is used
XX CC in the exemplification of the present invention.
XX XX Sequence 19 BP; 3 A; 8 C; 5 G; 0 T; 3 U; 0 Other;
XX SQ
Query Match 0.4%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2905 GGCAGGCATGGCCCTGGG 2922
DB 19 GGCAGGCATGGCCCTGAG 2
RESULT 878
ADF36101
ID ADF36101 standard; RNA; 19 BP.
XX AC ADF36101;
XX XX
XX DT 12-FEB-2004 (first entry)
XX DE Human VEGFR1 short interfering nucleic acid (siNA) SEQ ID NO:390.
XX KW double-stranded short interfering nucleic acid;
XX KW short interfering nucleic acid; siNA; downregulation;
XX KW vascular endothelial growth factor receptor; VEGFR; antiangiogenic;
XX KW cytostatic; antidiabetic; ophthalmological; antiarthritic; antipsoriatic;
XX KW nephrotropic; gynaecological; angiogenesis-associated condition; cancer;
XX KW diabetic retinopathy; macular degeneration; neovascular glaucoma;

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Db      |||||
19 TGTGTGTGTGTGTGTG 2

RESULT 880
ADF49790/C
ID  ADF49790 standard; RNA; 19 BP.
XX
XX
AC  ADF49790;
XX
AC  ADF49790;
XX
DT  12-FEB-2004 (first entry)
XX
DE  Human BCL2 siNA lower sequence SEQ ID NO:518.
XX
KW  ss; siNA; human; BCL2; short interfering nucleic acid; RNA interference;
KW  cytostatic; immunosuppressive; virucide; anti-HIV; cancer;
KW  autoimmune disease; viral infection; HIV.
XX
OS  Homo sapiens.
XX
PN  WO2003070969-A2.
XX
PD  28-AUG-2003.
XX
PF  18-FEB-2003; 2003WO-US004908.
XX
PR  20-FEB-2002; 2002US-0358580P.
PR  11-MAR-2002; 2002US-0363124P.
PR  06-JUN-2002; 2002US-0386782P.
PR  18-JUL-2002; 2002US-0396905P.
PR  29-AUG-2002; 2002US-0406784P.
PR  05-SEP-2002; 2002US-0408378P.
PR  09-SEP-2002; 2002US-0409293P.
PR  15-JAN-2003; 2003US-0440129P.
XX
PA  (RIBO-) RIBOZYME PHARM INC.
XX
PI  Mcswiggen J, Beigelman L;
XX
DR  WPI; 2003-712622/67.
XX
PT  New short interfering nucleic acid, useful e.g. for treatment and
PT  diagnosis of cancer or autoimmune disease, downregulates expression of
PT  the BCL2 gene.
XX
PS  Example 3; SEQ ID NO 518; 148pp; English.
XX
CC  The invention relates to a novel short interfering nucleic acid (siNA)
CC  that downregulates expression of the BCL2 gene by RNA interference. A
CC  siNA of the invention has cytostatic, immunosuppressive, virucide, and
CC  anti-HIV activity. The siNA are useful for modulation (inhibition) of
CC  expression or activity of BCL2 by RNA interference. siNA are used to
CC  modulate expression of BCL2 genes, in cells, tissue explants or
CC  organisms, e.g. for treating cancer, autoimmune diseases and viral
CC  infections (including by HIV) but also for drug screening, diagnosis,
CC  target identification and validation, genetic engineering,
CC  pharmacogenomics, studying gene function and gene mapping (e.g. of single
CC  nucleotide polymorphisms). The sequences shown in ADF49273-ADF50143
XX  represent siNA of the invention.
SQ  Sequence 19 BP; 4 A; 9 C; 3 G; 0 T; 3 U; 0 Other;

Query Match      0.4%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY  1873 GTGAGGAGCTCTTCAAG 1890
Db      |||||
18 GTGAGGAGCTCTTCAAG 1

RESULT 881
ADF49376
```

```

DE Human gene signature HUMGS01562-derived sense primer.
XX
KW Gene signature; messenger RNA; mRNA; relative abundance; frequency;
KW human; cloning; mapping; non-biased library; diagnosis; detection;
KW cell typing; abnormal cell function; primer; PCR; amplification;
KW polymerase chain reaction; ss.
XX
OS Synthetic.
XX
XX WO9514772-A1.
XX
XX 01-JUN-1995.
XX
XX 11-NOV-1994; 94WO-JP001916.
XX
XX 12-NOV-1993; 93JP-00355504.
XX
XX (MATS/) MATSUBARA K.
XX (OKUB/) OKUBO K.
XX
XX Matsubara K, Okubo K;
XX
XX WPI; 1995-206931/27.
XX
XX Single-stranded DNA for identifying gene signatures - isolated from 3'-
XX directed human cDNA library that reflects relative abundance of corresp.
XX mRNA in specific human tissues.
XX
XX Example 7; Fig 7; 2245pp; Japanese.
XX
XX Primers T41001-T41382 are derived from novel human gene signature (GS)
XX sequences which did not match with sequences deposited in Genbank release
XX 76. The GS sequences (T19001-T26837) were obtained from 3'-directed cDNA
XX libraries prepared from various human tissues; synthesis of cDNA was
XX initiated from the 3'-end of mRNA by using poly(T) as the sole primer.
XX Each library is constructed so as to reflect accurately the relative
XX abundance of different mRNAs in the particular tissue from which it was
XX derived. The appearance frequency of a given GS in a cDNA library can be
XX determined (esp. using primers and probes derived from the GS sequences)
XX as a means of diagnosing abnormal cell function or for recognising
XX different cell types. The primers T41101-2 amplify clone pm2619 which
XX comprises the GS HUMGS001562 (T20562), located on chromosome 6
XX
XX Sequence 20 BP; 6 A; 6 C; 4 G; 4 T; 0 U; 0 Other;
XX
Query Match 0.4%; Score 16.4; DB 1; Length 20;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1250 TCGGCATTGACAGGACC 1267
DB 1 TCTGCATTGACAGGACC 18

RESULT 883
AAT93903
ID AAT93903 standard; DNA; 20 BP.
XX
AC AAT93903;
XX
XX 03-FEB-1998 (first entry)
XX
DE Primer for exon 8 of endothelial nitrogen monoxide synthase gene.
XX
XX Exon 8; PCR primer; single stranded conformational polymorphism; SSCP;
KW analysis; endothelial nitrogen monoxide synthase; eNOS;
KW genetic screening; coronary arterial spasm; angina pectoris; ss.
XX
OS Synthetic.
XX
XX Homo sapiens.
XX
XX WO9718327-A1.
XX
XX

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PD 22-MAY-1997.
XX
XX 13-NOV-1996; 96WO-JP003324.
XX
XX 13-NOV-1995; 95JP-00319504.
XX
XX 28-JUN-1996; 96JP-00168761.
XX
XX (SHIO ) SHIONOGI & CO LTD.
XX
XX Yasue H, Yoshimura M;
XX
XX WPI; 1997-289303/26.
XX
XX Genetic screening for diseases associated with coronary arterial spasm -
XX by assessment of the occurrence of specific mutation(s) of the
XX endothelial nitrogen monoxide synthase gene.
XX
XX Example 1; Page 14; 47pp; Japanese.
XX
XX The present sequence is an exon 8 primer for the polymerase chain
XX reaction-single stranded conformational polymorphism (PCR-SSCP) analysis
XX of the endothelial nitrogen monoxide synthase (eNOS) gene. The PCR-SSCP
XX analysis was used in an example of genetic screening method for diseases
XX associated with coronary arterial spasm, which comprises substituting if 1
XX or more specific nucleotides in the eNOS gene have been determined,
XX specifically G894T, C774T, T(-786)C, A(-922)G and T(-1468)A. Screening
XX for diseases associated with coronary spasm, e.g angina pectoris, cannot
XX be easily carried out by existing methods, this method allows rapid and
XX easy detection
XX
XX Sequence 20 BP; 6 A; 10 C; 2 G; 2 T; 0 U; 0 Other;
XX
Query Match 0.4%; Score 16.4; DB 1; Length 20;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3064 TGTTCCTCCACACCCCAACA 3081
DB 3 TGTATCCCATCCACCCCAACA 20

RESULT 884
AAC92592/c
ID AAC92592 standard; DNA; 20 BP.
XX
XX AAC92592;
XX
XX 27-MAR-2001 (first entry)
XX
XX Human nucleolin phosphorothioate antisense oligonucleotide, SEQ ID NO:42.
XX
XX Human nucleolin; P92; C23; phosphoprotein; ribosome biogenesis;
KW ribosome transport; cytokinesis; nucleogenesis; cell proliferation;
KW cell growth; transcriptional repression; replication;
KW signal transduction; chromatin decondensation; Ag-NOR family;
KW nucleolin antibody; systemic connective tissue disease; SLE;
KW systemic lupus erythematosus;
KW scleroderma-like chronic graft versus host disease;
KW expression inhibition; tumour formation; cancer; inflammation; ss.
KW immune disorder; phosphorothioate; antisense oligonucleotide; ss.
XX
XX Homo sapiens.
XX
XX US6165786-A.
XX
XX 26-DEC-2000.
XX
XX 03-NOV-1999; 99US-00433699.
XX
XX 03-NOV-1999; 99US-00433699.
XX
XX (ISIS-) ISIS PHARM INC.
XX

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PI Bennett CF, Cowser LM;
XX WPI; 2001-079848/09.
XX
XX Novel antisense compound targeted to human nucleolin which specifically
PT hybridizes with and inhibits the expression of human nucleolin, useful
PT for modulating the expression of nucleolin in cells.
XX
XX Claim 14; Col 41-42; 41pp; English.
XX
XX Sequences AAC2560-C92639 represent antisense oligonucleotides targeted
CC to the human nucleolin gene, which inhibit its expression. The antisense
CC oligonucleotides were designed to target different regions of the human
CC nucleolin mRNA, and were analysed for their effect on nucleolin mRNA
CC levels by quantitative real-time PCR. Nucleolin (also known as p92 or
CC C23) is the most abundant nuclear phosphoprotein in actively growing
CC cells. Nucleolin primarily participates in ribosome biogenesis and
CC transport of ribosomal components, being able to transiently bind to pre-
CC ribosomes in the nucleolus via a ribonucleoprotein consensus sequence.
CC However, it has also been shown to be involved in cytokinesis,
CC nucleogenesis, cell proliferation and growth, transcriptional repression,
CC replication, signal transduction, and chromatin decondensation. Nucleolin
CC is a member of the Ag-NOR (active ribosomal gene located in the nucleolar
CC organiser region) family of proteins which are markers of active
CC ribosomal genes, and whose expression is associated with the prediction
CC of tumour growth rate. The presence of antibodies against nucleolin are
CC associated with systemic connective tissue diseases such as systemic
CC lupus erythematosus (SLE) and scleroderma-like chronic graft versus host
CC disease. The oligonucleotides of the invention are useful for diagnosis,
CC prevention and treatment of conditions associated with nucleolin
CC expression, such as tumour formation, immune disorders and inflammation
XX
XX Sequence 20 BP; 4 A; 7 C; 1 G; 8 T; 0 U; 0 Other;
SQ
Query Match 0.4%; Score 16.4; DB 1; Length 20;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1353 GGAGATGATGAGATGAT 1370
Db 19 GAAGATGATGAGATGAT 2

RESULT 885
ABS97835/c
ID ABS97835 standard; DNA; 20 BP.
XX
XX ABS97835;
AC
XX
XX 23-DEC-2002 (first entry)
DT
XX
XX Human NADPH quinone oxidoreductase 2 (NQO2) polymorphic sequence #43.
DE
XX Human; ds; cytochrome P450 A1; CYP450A1; UGT2B4; MDR1;
XX cytochrome P450 A2; CYP450A2; cytochrome P450 02E; CYP45002E1; LTF;
XX adrenergic receptor beta1; ADRB1; aryl hydrocarbon; AHR; MRP3; NR1I2;
XX aryl hydrocarbon receptor nuclear translocator; ARNT; cathepsin S; CTSS;
XX cyclooxygenase 2; COX2; diazepam binding inhibitor; DBI; haematological;
XX epoxide hydrolase 2; EPHX2; 5-lipoxygenase activating protein; FLAP;
XX glutathione-S-transferase 12; GSTI2; histamine-N-methyl transferase;
XX HNMT; kallikrein 2; KLK2; nicotinamide-N-methyl transferase;
XX NADPH quinone oxidoreductase 2; NQO2; sulfotransferase thermolabile; STM;
XX UDP-glucuronosyl transferase 2B4; UDP-glucuronosyl transferase 2B7;
XX UGT2B7; UDP-glucuronosyl transferase; UGT2B15; uridine kinase receptor; UPA;
XX multidrug resistance 1; lactotransferrin; orphan nuclear receptor;
XX multidrug resistance associated protein 3; cancer; prostate;
XX acetylcholine muscarinic receptor; CHMR1; CHMR2; CHMR3; CHMR4; CHMR5;
XX altered drug metabolism; cardiovascular function; colorectal tumour;
XX central nervous system; pulmonary; immunological; SNP;
XX single nucleotide polymorphism.
XX
XX Homo sapiens.
OS
XX

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FN W0200257410-A2.
XX
XX 25-JUL-2002.
XX
XX 28-NOV-2001; 2001WO-US044838.
XX
XX 28-NOV-2000; 2000US-00724389.
XX
XX (DNAS-) DNA SCI LAB INC.
XX
XX Guida M, Hall J;
XX
XX WPI; 2002-698522/75.
XX
XX Isolated nucleic acid molecules having polymorphisms in known human genes
XX e.g. cytochrome p450 and cathepsin S useful as genetic linkage markers
XX for locating, identifying and characterizing the genes responsible for
XX disorder-related traits.
XX
XX Example 16; Page 131; 714pp; English.
XX
XX This invention relates to the sequence of an isolated nucleic acid
XX molecule comprising at least one base variation from that of a known
XX human cytochrome P450 A1 (CYP450A1), cytochrome P450 A2 (CYP450A2),
XX cytochrome P450 02E1 (CYP45002E1), adrenergic receptor beta1 (ADRB1),
XX aryl hydrocarbon (AHR), aryl hydrocarbon receptor nuclear translocator
XX (ARNT), cathepsin S (CTSS), cyclooxygenase 2 (COX2), diazepam binding
XX inhibitor (DBI), epoxide hydrolase 2 (EPHX2), 5-lipoxygenase activating
XX protein (FLAP), glutathione-S-transferase 12 (GSTI2), histamine-N-methyl
XX transferase (HNMT), kallikrein 2 (KLK2), nicotinamide -N-methyl
XX sulfotransferase thermolabile (STM), UDP-glucuronosyl transferase 2B4
XX (UGT2B4), UDP-glucuronosyl transferase 2B7 (UGT2B7), UDP-glucuronosyl
XX transferase (UGT2B15), uridine kinase receptor (UPA), multidrug resistance 1
XX (MDR1), lactotransferrin (LTF), multidrug resistance associated protein 3
XX (MRP3), orphan nuclear receptor (NR1I2), or acetylcholine muscarinic
XX receptor 1, 2, 3, 4, or 5 (CHMR1, CHMR2, CHMR3, CHMR4 or CHMR5) sequence.
XX The polymorphisms in the human genes cited in the invention are useful as
XX genetic linkage markers for locating and characterising the genes that
XX are responsible for specific traits within the genome and eventually
XX identifying the genes responsible for a variety of disorder-related
XX traits as a result of their e.g., overexpression, constitutive
XX expression, mutation or underexpression, which may be used in diagnosing
XX and/or treating the disorders. The nucleic acid molecules comprising the
XX polymorphic sequences contained in CYP450A1, CYP450A2, CYP45002E1,
XX ARNT, EPHX2, GSTI2, HNMT, NQO2, NR1I2, STM, UGT2B4, UGT2B7, UGT2B15, AHR,
XX MDR1 and/or MDR3 are useful for screening individuals for altered drug
XX metabolism. The polymorphic sequences contained in CYP450A1, CYP450A2,
XX AHR, MDR1 and/or MDR3 may also be used to screen individuals for
XX susceptibility to cancer. Polymorphic sequences in ADRB1 or CHMR2 are
XX used to screen for altered cardiovascular function, in COX2 for altered
XX susceptibility to colorectal tumours, in DBI or CHMR1 for altered central
XX nervous system function, in FLAP and HNMT for altered pulmonary,
XX immunological or haematological function, in KLK2 for altered serine
XX protease activity in the prostate, in LTF for altered immunological or
XX haematological function, in CHMR3, CHMR4 or CHMR5 for altered central and
XX peripheral nervous system function. The present sequence represents a
XX polymorphic DNA sequence of the invention
XX
XX Sequence 20 BP; 10 A; 8 C; 0 G; 2 T; 0 U; 0 Other;
SQ
Query Match 0.4%; Score 16.4; DB 1; Length 20;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2315 GTCGTGTGTGTGTGTGT 2332
Db 18 GTATGTGTGTGTGTGTGT 1

RESULT 886
ACC49689/c
ID ACC49689 standard; DNA; 20 BP.

```

XX ACC49689;
 XX 01-JUL-2003 (first entry)
 XX Human KSR chimeric phosphorothioate oligonucleotide SEQ ID NO:59.
 XX Human; kinase suppressor of ras-1; KSR; cytostatic; KSR inhibitor;
 KW antisense gene therapy; hyperproliferative disorder; phosphorothioate;
 KW developmental disorder; antisense oligonucleotide; ss.
 XX
 OS Homo sapiens.
 OS Synthetic.
 XX
 XX Key Location/Qualifiers
 FT modified_base 1..20
 FT /*tag= a
 FT /mod_base= OTHER
 FT /note= "phosphorothioate backbone"
 FT modified_base 1..5
 FT /*tag= b
 FT /mod_base= OTHER
 FT /note= "2'-O-methoxyethyls (2'-MOE) "
 FT modified_base 16..20
 FT /*tag= c
 FT /mod_base= OTHER
 FT /note= "2'-O-methoxyethyls (2'-MOE) "
 XX
 XX WO2003025144-A2.
 XX
 XX 27-MAR-2003.
 XX
 XX 19-SEP-2002; 2002WO-US029705.
 XX
 XX 20-SEP-2001; 2001US-00961001.
 XX
 XX (ISIS-) ISIS PHARM INC.
 XX
 XX Monia BP, Freier SM;
 XX
 XX WPI; 2003-363140/34.
 XX
 XX New compounds, particularly antisense oligonucleotides targeted to a
 PT nucleic acid encoding KSR, useful for treating a disease/condition
 PT associated with KSR, such as hyperproliferative or developmental
 PT disorders.
 XX
 XX Claim 3; Page 75; 102pp; English.
 XX
 XX The present invention describes a compound 8-50 nucleobases in length
 CC targeted to, and which specifically hybridizes with a nucleic acid
 CC molecule encoding kinase suppressor of ras-1 (KSR), and inhibits the
 CC expression of KSR. Also described: (1) a compound 8-50 nucleobases in
 CC length that specifically hybridizes with at least an 8-nucleobase portion
 CC of an active site on a nucleic acid molecule encoding KSR; (2) a
 CC composition comprising the compound and a carrier or diluent; (3)
 CC inhibiting the expression of KSR in cells or tissues by contacting the
 CC cells or tissues with the compound so that expression of KSR is inhibited
 CC ; and (4) treating an animal having a disease or condition associated
 CC with KSR by administering to the animal a therapeutic or prophylactic
 CC amount of the compound so that expression of KSR is inhibited. The
 CC compound has cytostatic activity and can be used as a KSR inhibitor, and
 CC in antisense gene therapy. The compound, composition and methods are
 CC useful for treating a disease or condition associated with KSR, such as a
 CC hyperproliferative or developmental disorder, or a disease or condition
 CC arising from aberrant apoptosis by inhibiting the expression of KSR. They
 CC are also useful in research and diagnostics for modulating the expression
 CC of KSR. The present sequence represents a chimeric phosphorothioate
 CC antisense oligonucleotide of human KSR, which is used in an example from
 CC the present invention
 XX
 XX Sequence 20 BP; 6 A; 5 C; 5 G; 4 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.4; DB 1; Length 20;
 Best Local Similarity 94.4%; Pred. No. 1.1e+03;
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1672 ATCGCAGACTTCGGGCTG 1689
 DB 20 ATCAGAGACTTCGGGCTG 3
 RESULT 887
 ACC80119/C
 ID ACC80119 standard; DNA; 20 BP.
 XX
 XX ACC80119;
 XX
 XX 01-AUG-2003 (first entry)
 XX
 XX VEGFR-2 antisense oligonucleotide #42.
 XX Human; vascular endothelial growth factor receptor-2; cytostatic;
 KW angiogenic; antiangiogenic; antiarthritic; antirheumatic; antisense;
 KW VEGFR-2; hyperproliferative disorder; cancer; rheumatoid arthritis;
 KW angiogenesis; phosphorothioate; ss.
 XX
 XX Synthetic.
 XX
 XX Key Location/Qualifiers
 FT modified_base 1..20
 FT /*tag= a
 FT /mod_base= OTHER
 FT /note= "This oligonucleotide has a phosphorothioate
 FT backbone and 2'-methoxyethyl (2'-MOE) wings at the 5',
 FT and 3' ends, which are 5 nucleotides in length. Also all
 FT cytidine residues are 5-methylcytidines"
 XX
 XX WO2003029266-A1.
 XX
 XX 10-APR-2003.
 XX
 XX 26-SEP-2002; 2002WO-US030734.
 XX
 XX 28-SEP-2001; 2001US-00967655.
 XX
 XX (ISIS-) ISIS PHARM INC.
 XX
 XX Bennett CP, Watt AT;
 XX
 XX WPI; 2003-371980/35.
 XX
 XX New compounds, particularly antisense oligonucleotides targeted to a
 PT nucleic acid encoding vascular endothelial growth factor receptor-2
 PT (VEGFR-2), useful for treating a disease/condition associated with VEGFR-
 PT 2, e.g. cancer.
 XX
 XX Claim 3; Page 83; 127pp; English.
 XX
 XX The present invention relates to novel antisense oligonucleotides
 CC (ACC71728-ACC71750 and ACC80101-ACC80155) targeted to Vascular
 CC Endothelial Growth Factor Receptor-2 (VEGFR-2) nucleotide sequence, and
 CC which inhibit the expression of VEGFR-2. The oligonucleotides are useful
 CC in compositions for treating a disease or condition associated with VEGFR
 CC -2, such as hyperproliferative disorder, e.g. cancer, a disease or
 CC condition involving angiogenesis, or rheumatoid arthritis
 XX
 XX Sequence 20 BP; 5 A; 8 C; 3 G; 4 T; 0 U; 0 Other;
 XX
 Query Match 0.4%; Score 16.4; DB 1; Length 20;
 Best Local Similarity 94.4%; Pred. No. 1.1e+03;
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1584 GGGCATGGAGTACTTGGC 1601
 DB 19 GGGCATGGAGTCTTGGC 2

RESULT 888
ADP75264/c
ID ADF87844 standard; DNA; 20 BP.
XX
AC ADF87844;
XX
DT 26-FEB-2004 (first entry)
XX
DE Single nucleotide polymorphism detection primer, SEQ ID NO 1427.
XX
KW human; single nucleotide polymorphism; microarray; side effect; ss;
KW primer; PCR.
XX
OS Synthetic.
OS Homo sapiens.
XX
PN JP2003235571-A.
XX
PD 26-AUG-2003.
XX
PF 12-FEB-2002; 2002JP-00034717.
XX
PR 12-FEB-2002; 2002JP-00034717.
XX
PA (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN.
XX
DR WPI; 2003-820454/77.
XX
PT Novel polynucleotide useful for detecting single nucleotide polymorphisms
PT in human gene.
XX
PS Claim 2; SEQ ID NO 1427; 704pp; Japanese.
XX
CC The invention relates to a novel polynucleotide isolated and purified
CC from a human gene having any one of 935 fully defined sequences as given
CC in specification, or a sequence having a base substitution. The invention
CC further relates to: an oligonucleotide containing single nucleotide
CC polymorphisms; a PCR primer set chosen from the combination of two DNA
CC fragments from any one of 1220 fully defined sequences as given in
CC specification; a labelling probe containing the SNP containing oligo; and
CC a microarray equipped with the SNP containing oligo. The isolated human
CC gene of the invention is useful for detecting the single nucleotide
CC polymorphisms in human gene. The isolated human gene is also useful for
CC diagnosis of disease and determination of side effect to a medical agent.
CC The isolated human gene is also effective in detecting single nucleotide
CC polymorphisms in a human gene. This polynucleotide sequence represents
CC one of the PCR primers used in the single nucleotide polymorphism
CC detection method of the invention.
XX
SQ Sequence 20 BP; 8 A; 8 C; 4 G; 0 T; 0 U; 0 Other;
Query Match 0.4%; Score 16.4; DB 1; Length 20;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2327 GTGTGTCGCTGTGTGTGT 2344
DB 19 GTGTGTCGCTGTGTGTGT 2
RESULT 889
ADP75264/c
ID ADF75264 standard; DNA; 20 BP.
XX
AC ADF75264;
XX
DT 12-AUG-2004 (first entry)
XX
DE Human NRG2 gene exon A SSCP reverse primer #1.
XX
KW Human; SSCP; ss; primer; ADAM19; Endophilin 1; Endophilin 2; NRG2;

KW ADAMTS2; a disintegrin and metalloprotease; neuroregulin 2; SNP;
KW single nucleotide polymorphism;
KW a disintegrin and metalloprotease with thrombospondin type 1 motif 2;
KW asthma; atopy; obesity; inflammatory bowel disease; respiratory disorder;
KW single-strand conformation polymorphism.
XX
OS Homo sapiens.
XX
PN WO2003031594-A2.
XX
PD 17-APR-2003.
XX
PF 11-OCT-2002; 2002WO-US032700.
XX
PR 11-OCT-2001; 2001US-0328424P.
XX
PA (GENO-) GENOME THERAPEUTICS CORP.
XX
PI Keith T, Little RD, Van Berdewegh P, Dupuis J, Del Mastro RG;
PI Allen K;
XX
DR WPI; 2003-381712/36.
XX
CC New isolated nucleic acid or alternate splice variant, useful for
CC diagnosing and treating a disintegrin and metalloprotease (ADAM) or
CC interactor gene-associated disorder, e.g. asthma, atopy, obesity or
CC inflammatory bowel disease.
PS Claim 2; Page 124; 338pp; English.
XX
CC The invention relates to an isolated nucleic acid or alternate splice
CC variant comprising a nucleotide sequence containing at least one of the
CC single nucleotide polymorphisms given in the specification, a nucleotide
CC sequence having at least 15 contiguous nucleotides of them, or
CC complements of them. The genes are ADAM19 (a disintegrin and
CC metalloprotease 19, also known as gene 845), NRG2 (neuroregulin 2, also
CC known as gene 847), endophilin 1 (also known as gene 874), endophilin 2
CC (also known as gene 803) and ADAMTS2 (a disintegrin and metalloprotease
CC with thrombospondin type 1 motif 2, also known as gene 962). Also included
CC are a vector comprising the isolated nucleic acid (or alternate splice
CC variant), a host cell containing the vector, an isolated polypeptide
CC encoded by the novel nucleic acid (or alternate splice variant), an
CC antibody or antibody fragment that binds to the polypeptide,
CC pharmaceutical compositions comprising the nucleic acid or alternate
CC splice variant, vector, polypeptide or antibody, and a carrier,
CC expipient or diluent), a kit for detecting a disintegrin and
CC metalloprotease (ADAM) gene nucleotide sequence (comprising the isolated
CC nucleic acid or alternate splice variant, antibody or antibody fragment,
CC and at least one component to detect the hybridisation of the variant or
CC the binding of the antibody to an ADAM gene amino acid sequence), a kit
CC for detecting an interactor gene amino acid sequence (comprising the
CC antibody or antibody fragment, and at least one component to detect the
CC binding of the antibody to the interactor gene amino acid sequence),
CC diagnosing an ADAM or interactor gene-associated disorder or a
CC respiratory disorder in a human subject, determining an ADAM or
CC interactor gene pharmacogenetic profile in a human subject, identifying
CC an orthologue of a human ADAM or interactor gene, treating an ADAM or
CC interactor gene-associated disorder (or a respiratory disorder) by
CC administering the pharmaceutical composition, a transgenic mouse (whose
CC genome comprises an introduced null mutation in an endogenous gene that
CC is orthologous to a human ADAM gene), making a homozygous transgenic
CC knockout mouse, forming a crystal of the isolated polypeptide, a cell
CC line comprising the isolated nucleic acid or alternate splice variant, a
CC biochip comprising the isolated nucleic acid or alternate splice variant,
CC an isolated nucleic acid probe or primer comprising at least 8 contiguous
CC nucleotides of the nucleic acid, an isolated antisense nucleic acid,
CC identifying an ADAM or interactor gene ligand and an isolated nucleic
CC acid variant of Gene 803, 845, 847, 874 or 962. The nucleic acid or
CC alternate splice variants, methods, kits and antibody/antibody fragment
CC are useful for diagnosing and treating an ADAM or interactor gene-
CC associated disorder, e.g. asthma, atopy, obesity or inflammatory bowel
CC disease. The present sequence is an SSCP (single-strand conformation
CC polymorphism) primer used to analyse the above genes for the presence of

CC polymorphisms.
 XX Sequence 20 BP; 6 A; 2 C; 8 G; 4 T; 0 U; 0 Other;
 SQ Query Match 0.4%; Score 16.4; DB 1; Length 20;
 Best Local Similarity 94.4%; Pred. No. 1.1e+03;
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2632 CCACATGTCAGCACCTT 2649
 DB 20 CCACTTGTCAGCACCTT 3

RESULT 890
 ADK96906/c
 ID ADK96906 standard; DNA; 20 BP.
 XX AC ADK96906;
 XX DT 06-MAY-2004 (first entry)
 XX DE Primer of the invention #2626.
 XX KW human; single nucleotide polymorphism; SNP; ss; primer.
 XX OS Synthetic.
 XX PN JP2003259875-A.
 XX PD 16-SEP-2003.
 XX PF 08-MAR-2002; 2002JP-00064373.
 XX PR 08-MAR-2002; 2002JP-00064373.
 XX PA (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN.
 XX DR WPI; 2004-093977/10.
 XX PT Novel polynucleotide useful for PCR amplification along with two DNA
 fragment from another set of sequences, or for detecting single
 PT nucleotide polymorphism in human gene.
 XX PS Claim 2; SEQ ID NO 5935; 2627pp; Japanese.
 CC The present invention relates to a polynucleotide isolated from a human
 CC gene and is useful for detecting a single nucleotide polymorphism in a
 CC human gene or for diagnosing of disease. The invention enables the
 CC detection of a single nucleotide polymorphism in a human gene. The
 CC present sequence represents a primer of the invention.
 XX SQ Sequence 20 BP; 6 A; 5 C; 6 G; 3 T; 0 U; 0 Other;
 Query Match 0.4%; Score 16.4; DB 1; Length 20;
 Best Local Similarity 94.4%; Pred. No. 1.1e+03;
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 327 CTCATCTCTGCTGCTGAA 344
 DB 20 CTCATCTCTGCTGCTGAA 3

RESULT 891
 ADM14911/c
 ID ADM14911 standard; DNA; 20 BP.
 XX AC ADM14911;
 XX DT 01-JUL-2004 (first entry)
 XX DE Human mPGES-1 chimeric antisense oligonucleotide SEQ ID NO:1098.
 XX KW chimeric; antisense oligonucleotide; phosphorothioate; human;

KW microsomal prostaglandin E2 synthase; mPGES-1; mPGES-1 inhibitor;
 KW microsomal prostaglandin E2 synthase inhibitor; cytosolic; antidiabetic;
 KW immunomodulator; cardiant; neuroprotective; antiinflammatory;
 KW neuroprotective; nootropic; antiarthritic; vasotropic; ophthalmological;
 KW immunomodulatory; cardiovascular; gene therapy; inflammation;
 KW Alzheimer's disease; arthritis; diabetes; cancer; ischaemia;
 KW reperfusion injury; ophthalmic disorder; immunological disorder;
 KW cardiovascular disorder; neurological disorder; ss.
 XX Homo sapiens.
 OS Synthetic.
 XX Key Location/Qualifiers
 FH modified_base 1..20
 FT /tag= b
 FT /mod_base= OTHER
 FT /note= "phosphorothioate linkages and all cytidine
 residues are 5-methylcytidines"
 FT modified_base 1..5
 FT /tag= a
 FT /mod_base= OTHER
 FT /note= "2'-O-methoxyethyls"
 FT modified_base 16..20
 FT /tag= c
 FT /mod_base= OTHER
 FT /note= "2'-O-methoxyethyls"
 XX WO2004028458-A2.
 XX 08-APR-2004.
 XX 25-SEP-2003; 2003WO-US030374.
 XX 25-SEP-2002; 2002US-0413549P.
 XX (PHAA) PHARMACIA CORP.
 XX Gierse JK;
 XX WPI; 2004-305094/28.
 XX New antisense compound, having a sequence targeted to a nucleic acid
 PT encoding mPGES-1, useful for preparing a composition for treating e.g.,
 PT inflammation, Alzheimer's disease, arthritis, diabetes, cancer or
 PT ischemia.
 XX Claim 4; SEQ ID NO 1098; 132pp; English.
 PS The present sequence represents a chimeric antisense oligonucleotide
 CC targeted to human microsomal prostaglandin E2 synthase (mPGES-1). The
 CC human mPGES-1 gene is located on chromosome 9, more specifically to
 CC 9q34.3. The present invention also describes: (1) antisense compounds,
 CC having a sequence comprising 8-30 bp targeted to a nucleic acid encoding
 CC mPGES-1, which specifically hybridise with the nucleic acid mPGES-1 and
 CC inhibits its expression; (2) a method of inhibiting the expression of
 CC mPGES-1 in cells or tissues; and (3) a method of treating an animal
 CC having a disease or condition associated with mPGES-1. mPGES-1 chimeric
 CC antisense oligonucleotides and antisense compounds have cytostatic,
 CC antidiabetic, immunomodulator, cardiant, neuroprotective,
 CC antiinflammatory, neuroprotective, nootropic, antiarthritic, vasotropic,
 CC ophthalmological, immunomodulatory and cardiovascular activities, and can
 CC be used as mPGES-1 inhibitors and in gene therapy. The antisense compound
 CC can be used for preparing a composition for treating a disease or
 CC condition associated with mPGES-1 e.g., inflammation, Alzheimer's
 CC disease, arthritis, diabetes, cancer, ischaemia or reperfusion injury, or
 CC ophthalmic, immunological, cardiovascular or neurological disorder.
 XX SQ Sequence 20 BP; 8 A; 8 C; 2 G; 2 T; 0 U; 0 Other;
 Query Match 0.4%; Score 16.4; DB 1; Length 20;
 Best Local Similarity 94.4%; Pred. No. 1.1e+03;
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2316 TCTGTGTGTGTGTGTG 2333
 |||||
 Db 18 TCCGTGTGTGTGTGTG 1

RESULT 892
 AAZ18180/c
 ID AAZ18180 standard; DNA; 21 BP.
 AC
 XX
 XX
 DT 11-OCT-1999 (first entry)
 XX
 DE PTK 25 gene specific primer.
 XX
 KW Genetic proximity; gene expression; cell characterisation; homeobox gene;
 KW genetic defect; reverse transcriptase polymerase chain reaction; RT-PCR;
 KW kinase gene; protein phosphatase; p450; steroid receptor; cadherin;
 KW primer; ss.
 XX
 OS Synthetic.
 OS Homo sapiens.
 PN WO9934016-A2.
 XX
 PD 08-JUL-1999.
 XX
 PF 28-DEC-1998; 98WO-IL000625.
 XX
 PR 29-DEC-1997; 97IL-00122793.
 PR 16-OCT-1998; 98IL-00126627.
 XX
 PA (GENE-) GENENA LTD.
 XX
 PI Vidar B;
 XX
 DR WPI; 1999-419113/35.
 DR P-PSDB; AAY14715.
 XX
 PT Identifying and characterizing cells by comparing the pattern of gene
 expression in a selected gene family.
 XX
 PS Claim 4; Page 46; 102pp; English.
 XX

The invention provides a new method for identifying and characterising cells. The method for determining the genetic proximity of a first cell and a second cell comprises: (a) obtaining the first cell and the second cell; (b) determining in the first cell and the second cell the pattern of expression of genes in a selected gene family; and (c) calculating a proximity index using a specified formula. The methods can be used for characterising cells, e.g. for determining the origin of a cell, its genetic status, whether it carries a genetic defect, or whether it is transformed. They can be used for detecting a selected genetic defect in an individual, e.g. a fetus. They can also be used for determining the effect of a selected treatment on a test cell. They can also be used for obtaining cells capable of expressing an homeobox related desired property. The method uses reverse transcriptase polymerase chain reaction (RT-PCR) for determining the pattern of gene expression in a selected gene family. Sequences AAZ1803-218342 represent primers that can be used in the RT-PCR reactions to determine the pattern of gene expression. The gene family can be selected from a set of homeobox genes, kinase genes, protein phosphatase genes, p450 enzyme genes, steroid receptor superfamily genes or cadherin superfamily genes

Sequence 21 BP; 7 A; 8 C; 4 G; 2 T; 0 U; 0 Other;
 Query Match 0.4%; Score 16.4; DB 1; Length 21;
 Best Local Similarity 94.4%; Pred. No. 1.2e+03;
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1801 GAGCTGTGTCCTTTGGG 1818
 |||||
 Db 18 GAGCTGTGTCCTTTGGG 1

RESULT 893
 AAZ18186/c
 ID AAZ18186 standard; DNA; 21 BP.
 AC
 XX
 XX
 DT 11-OCT-1999 (first entry)
 XX
 DE PTK 28 gene specific primer.
 XX
 KW Genetic proximity; gene expression; cell characterisation; homeobox gene;
 KW genetic defect; reverse transcriptase polymerase chain reaction; RT-PCR;
 KW kinase gene; protein phosphatase; p450; steroid receptor; cadherin;
 KW primer; ss.
 XX
 OS Synthetic.
 OS Homo sapiens.
 PN WO9934016-A2.
 XX
 PD 08-JUL-1999.
 XX
 PF 28-DEC-1998; 98WO-IL000625.
 XX
 PR 29-DEC-1997; 97IL-00122793.
 PR 16-OCT-1998; 98IL-00126627.
 XX
 PA (GENE-) GENENA LTD.
 XX
 PI Vidar B;
 XX
 DR WPI; 1999-419113/35.
 DR P-PSDB; AAY14721.
 XX
 PT Identifying and characterizing cells by comparing the pattern of gene
 expression in a selected gene family.
 XX
 PS Claim 4; Page 46; 102pp; English.
 XX

The invention provides a new method for identifying and characterising cells. The method for determining the genetic proximity of a first cell and a second cell comprises: (a) obtaining the first cell and the second cell; (b) determining in the first cell and the second cell the pattern of expression of genes in a selected gene family; and (c) calculating a proximity index using a specified formula. The methods can be used for characterising cells, e.g. for determining the origin of a cell, its genetic status, whether it carries a genetic defect, or whether it is transformed. They can be used for detecting a selected genetic defect in an individual, e.g. a fetus. They can also be used for determining the effect of a selected treatment on a test cell. They can also be used for obtaining cells capable of expressing an homeobox related desired property. The method uses reverse transcriptase polymerase chain reaction (RT-PCR) for determining the pattern of gene expression in a selected gene family. Sequences AAZ1803-218342 represent primers that can be used in the RT-PCR reactions to determine the pattern of gene expression. The gene family can be selected from a set of homeobox genes, kinase genes, protein phosphatase genes, p450 enzyme genes, steroid receptor superfamily genes or cadherin superfamily genes

Sequence 21 BP; 7 A; 8 C; 4 G; 2 T; 0 U; 0 Other;
 Query Match 0.4%; Score 16.4; DB 1; Length 21;
 Best Local Similarity 94.4%; Pred. No. 1.2e+03;
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1801 GAGCTGTGTCCTTTGGG 1818
 |||||
 Db 18 GAGCTGTGTCCTTTGGG 1

RESULT 894

XX	PTK 32 gene specific primer.	KW	Human ABC1 cholesterol transporter; chromosome 9q31;
DE	Genetic proximity; gene expression; cell characterization; homeobox gene;	KW	ATP-binding cassette; HDL deficiency disorder; high density lipoprotein;
XX	Genetic defect; reverse transcriptase polymerase chain reaction; RT-PCR;	KW	Tangier disease; TD; familial HDL deficiency; FHA; polymorphism;
KW	kinase gene; protein phosphatase; P450; steroid receptor; cadherin;	KW	cerebrovascular disease; coronary artery disease; coronary restenosis;
KW	primer; ss.	KW	cerebrovascular disease; peripheral vascular disease;
XX		KW	Alzheimer's disease; Niemann-Pick disease; Huntington's disease;
OS	Synthetic.	KW	X-linked adrenoleukodystrophy; cancer; gene therapy; genetic diagnosis;
OS	Homo sapiens.	XX	prognosis; prophylaxis; drug screening; transgenic animal; ds.
XX		XX	Homo sapiens.
PN	WO9934016-A2.	XX	WO200055318-A2.
XX		XX	21-SEP-2000.
XX		XX	15-MAR-2000; 2000WO-IB000532.
PF	28-DEC-1998; 98WO-IL000625.	XX	15-MAR-1999; 99US-0124702P.
XX		PR	08-JUN-1999; 99US-0138048P.
PR	29-DEC-1997; 97IL-0012793.	PR	17-JUN-1999; 99US-0139600P.
XX	16-OCT-1998; 98IL-00128627.	PR	01-SEP-1999; 99US-0151977P.
XX	(GENE-) GENENAL LTD.	XX	(UYBR-) UNIV BRITISH COLUMBIA.
PA		PA	(XENO-) XENON BIORESEARCH INC.
XX	Vider B;	XX	Hayden MR, Wilson AR, Pimstone SN;
PI		PI	WPI; 2000-587528/55.
DR	WPI; 1999-419113/35.	DR	New ABC1 polypeptide is useful for treating diseases associated with ABC1
DR	P-PSDB; AAY14727.	PT	biological activity, e.g. Alzheimer's disease, Huntington's disease and
XX	Identifying and characterizing cells by comparing the pattern of gene	PT	cancer.
PT	expression in a selected gene family.	PT	Example; Fig 11; 229pp; English.
XX	Claim 4; Page 47; 102pp; English.	PS	The invention relates to the human ABC1 cholesterol transporter protein
XX	The invention provides a new method for identifying and characterising	XX	(B38082) and to nucleic acid sequences (C69120) which encode it. ABC1 is
CC	cells. The method for determining the genetic proximity of a first cell	CC	a member of the ATP-binding cassette (ABC transporter) superfamily of
CC	and a second cell comprises: (a) obtaining the first cell and the second	CC	proteins, and plays a crucial role in cholesterol transport, particularly
CC	cell; (b) determining in the first cell and the second cell the pattern	CC	intracellular cholesterol trafficking in monocytes and fibroblasts, being
CC	of expression of genes in a selected gene family; and (c) calculating a	CC	involved in cholesterol efflux from the cell. The gene encoding ABC1 is
CC	proximity index using a specified formula. The methods can be used for	CC	located on chromosome 9q31, and mutations in this gene are associated
CC	characterising cells, e.g. for determining the origin of a cell, its	CC	with two genetic HDL (high density lipoprotein) deficiency disorders,
CC	genetic status, whether it carries a genetic defect, or whether it is	CC	Tangier disease (TD) and familial HDL deficiency (FHA). These diseases
CC	transformed. They can be used for detecting a selected genetic defect in	CC	are distinguishable in that TD is an autosomal recessive disorder, while
CC	an individual, e.g. a fetus. They can also be used for determining the	CC	FHA is inherited as an autosomal dominant trait. Low levels of HDL ("good
CC	effect of a selected treatment on a test cell. They can also be used for	CC	cholesterol") in the blood correlate with a high risk of cardiovascular
CC	obtaining cells capable of expressing an homeobox related desired	CC	disease, particularly coronary artery disease, but also cerebrovascular
CC	property. The method uses reverse transcriptase polymerase chain reaction	CC	disease, coronary restenosis, and peripheral vascular disease.
CC	(RT-PCR) for determining the pattern of gene expression in a selected	CC	Conversely, a high level of HDL has protective effects against
CC	gene family. Sequences AA217803-218342 represent primers that can be used	CC	cardiovascular disease. The invention provides genetic constructs and
CC	in the RT-PCR reactions to determine the pattern of gene expression. The	CC	transgenic cells and non-human animals comprising human ABC1 nucleic
CC	gene family can be selected from a set of homeobox genes, kinase genes,	CC	acids, and methods of gene therapy for the treatment or prevention of
CC	protein phosphatase genes, P450 enzyme genes, steroid receptor	CC	cardiovascular disease comprising the administration of an expression
CC	superfamily genes or cadherin superfamily genes	CC	vector encoding ABC1 or an active fragment thereof. The invention also
XX		CC	encompasses compounds which mimic ABC1 activity, compounds which
XX		CC	stimulate ABC1 expression and methods of screening for such compounds. It
XX		CC	further relates to methods for determining whether a patient has an
XX		CC	increased risk for cardiovascular disease due to polymorphisms in the
XX		CC	ABC1 gene. Human ABC1 proteins and nucleotides can be used to treat or
XX		CC	prevent cardiovascular disease, especially coronary artery disease,
XX		CC	cerebrovascular disease, coronary restenosis or peripheral vascular
XX		CC	disease. They may also be used in the treatment of diseases associated
XX		CC	with ABC1 biological activity, such as Alzheimer's disease, Niemann-Pick
XX		CC	disease, Huntington's disease, X-linked adrenoleukodystrophy and cancer.
XX		CC	The invention specifically excludes proteins with the exact amino acid
XX		CC	sequences of GenBank Accession No: CAA10005.1 and X75926, and the nucleic
XX		CC	acid with the exact sequence as GenBank Accession No: AJ012376.1. The
XX		CC	present sequence represents a polymorphic site of the human ABC1 gene
XX		XX	Sequence 21 BP; 2 A; 6 C; 9 G; 4 T; 0 U; 0 Other;
XX		XX	Query Match 0.4%; Score 16.4; DB 1; Length 21;

QY	1801 GACGTCGTGTCCTTTGGG 1818
DB	18 GACGTCGTGTCCTTTGGG 1
RESULT 897	
AA69306	
ID	AAC69306 standard; DNA; 21 BP.
XX	
AC	AAC69306;
XX	
DT	29-JAN-2001 (first entry)
XX	
DE	Human ABC1 gene promoter polymorphic site, SEQ ID NO:205.
XX	

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Best Local Similarity 94.4%; Pred. No. 1.2e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 497 ACACGCTGGCGTGG 514
Db 1 ACACGCTGGCGTGG 18

RESULT 898
AA73573/C
ID AAA73573 standard; DNA; 21 BP.
XX AC AAA73573;
XX 29-NOV-2000 (first entry)
XX Forward PCR primer for loblolly pine locus RIPPR11.
XX PCR primer; loblolly pine; Simple Sequence Repeat; SSR;
KW microsatellite DNA repeat; genetic marker; mapping; inheritance study;
KW population genetics study; plant breeding programme; ss.
XX Pinus taeda.
OS
XX WO200042210-A2.
XX 20-JUL-2000.
XX 06-JAN-2000; 2000WO-US000325.
XX 15-JAN-1999; 99US-00232884.
XX 19-JAN-1999; 99US-00232785.
XX (INTO ) INT PAPER CO.
PA (ECHT/) ECHT C S.
PA (NELS/) NELSON C D.
PA (USDA ) US SEC OF AGRIC.
XX ECHT CS, Nelson CD;
XX WPI; 2000-482836/42.
XX Polynucleotide having simple sequence repeat useful as markers in plants
PT for genetic characterization e.g. genetic mapping study, an inheritance
PT study of a commercially important trait in a plant breeding program.
XX Claim 6; Page 21; 57pp; English.
XX The present invention relates to loblolly pine polynucleotides with one
CC or more Simple Sequence Repeats (SSRs) (see AAA74205-A74322). SSRs are
CC also known as microsatellite DNA repeats. The SSRs are useful as genetic
CC markers for genetic mapping, population genetics studies and inheritance
CC studies in various plant breeding programmes. The present sequence is a
CC PCR primer used for detecting the presence of a SSR locus in a pine
CC genomic DNA sample
XX Sequence 21 BP; 2 A; 6 C; 4 G; 9 T; 0 U; 0 Other;
SQ Query Match 0.4%; Score 16.4; DB 1; Length 21;
Best Local Similarity 94.4%; Pred. No. 1.2e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3575 AAAGCTGGGGAAGCC 3592
Db 18 AAAGCTGGGGAAGCC 1

RESULT 899
AAF92948
ID AAF92948 standard; DNA; 21 BP.
XX AAF92948;
XX

Best Local Similarity 94.4%; Score 16.4; DB 1; Length 21;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 497 ACACGCTGGCGTGG 514
Db 1 ACACGCTGGCGTGG 18

RESULT 900
AAH89131
ID AAH89131 standard; DNA; 21 BP.
XX AAH89131;
XX 09-SEP-2004 (revised)
DT 27-FEB-2002 (first entry)
XX Human polymorphic oligonucleotide U63963 fragment #13.
DE Human; single nucleotide polymorphic; SNP; forensic science;
KW paternity testing; phenotypic trait; genetic mapping; animal breeding;
KW plant breeding; ds.
XX Homo sapiens.
OS Unidentified.
XX Key Location/Qualifiers
FH variation 11
FT 11

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DT 17-MAY-2001 (first entry)
XX Polymorphic sequence for ABC1 polymorphic site #18.
XX High density lipoprotein-cholesterol; HDL-C; cardiovascular; ABC1; ds.
XX Homo sapiens.
XX WO200115676-A2.
XX 08-MAR-2001.
XX 01-SEP-2000; 2000WO-IB001492.
XX 01-SEP-1999; 99US-0151977P.
PR 15-MAR-2000; 2000US-00526193.
PR 23-JUN-2000; 2000US-0213958P.
XX (UYBR-) UNIV BRITISH COLUMBIA.
PA (XENO-) XENON GENETICS INC.
XX Hayden MR, Brooks-Wilson AR, Pimstone SN, Clee SM;
PI WPI; 2001-244356/25.
XX Treating a lower than normal high density lipoprotein-cholesterol (HDL-C)
PT level, a higher than normal triglyceride level, or a cardiovascular
PT disease, by administering a compound that modulates LXR- or RXR-mediated
PT transcriptional activity.
XX Disclosure; Fig 4; 317pp; English.
XX The present invention relates to a method for treating a patient
CC diagnosed as having a lower than normal high density lipoprotein-
CC cholesterol (HDL-C) level, a higher than normal triglyceride level, or a
CC cardiovascular disease, involving administering a compound that modulates
CC LXR- or RXR-mediated transcriptional activity or ABC1 expression or
CC activity. The LXR gene product may be used in an assay to identify
CC compounds useful for the treatment of a disease or condition selected a
CC lower than normal HDL cholesterol level, a higher than normal
CC triglyceride level, and a cardiovascular disease
XX Sequence 21 BP; 2 A; 6 C; 9 G; 4 T; 0 U; 0 Other;
SQ Query Match 0.4%; Score 16.4; DB 1; Length 21;
Best Local Similarity 94.4%; Pred. No. 1.2e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 497 ACACGCTGGCGTGG 514
Db 1 ACACGCTGGCGTGG 18

RESULT 900
AAH89131
ID AAH89131 standard; DNA; 21 BP.
XX AAH89131;
XX 09-SEP-2004 (revised)
DT 27-FEB-2002 (first entry)
XX Human polymorphic oligonucleotide U63963 fragment #13.
DE Human; single nucleotide polymorphic; SNP; forensic science;
KW paternity testing; phenotypic trait; genetic mapping; animal breeding;
KW plant breeding; ds.
XX Homo sapiens.
OS Unidentified.
XX Key Location/Qualifiers
FH variation 11
FT 11

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FT      /tag= a
FT      /standard_name= "single nucleotide polymorphism"
PN      WO200134840-A2.
XX      17-MAY-2001.
XX      10-NOV-2000; 2000WO-US030766.
XX      10-NOV-1999; 99US-0164596P.
XX      (GLAXO) GLAXO GROUP LTD.
PA      (AFFY-) AFFYMETRIX INC.
XX      Au K, Chen J, Patil N, Thomas D;
XX      WPI; 2001-335945/35.
XX      New polymorphic sites derived from the human genome are useful to
PT      determine sites correlating with phenotypic traits, particularly disease,
PT      and also in forensics and paternity testing.
XX      Claim 87; Page 14; 43pp; English.
XX      The present invention relates to human oligonucleotides comprising a
CC      single nucleotide polymorphic site (SNP: AAH88797-AAH89219). The present
CC      sequence is one such oligonucleotide. The oligonucleotides can be used in
CC      forensics, paternity testing, correlation of polymorphisms with
CC      phenotypic traits, genetic mapping of phenotypic traits and marker
CC      assisted breeding of animals and crop plants
CC      Revised record issued on 09-SEP-2004 : Correction to Feature Table Key
XX      Sequence 21 BP; 3 A; 7 C; 5 G; 6 T; 0 U; 0 Other;
SQ      Query Match      0.4%; Score 16.4; DB 1; Length 21;
      Best Local Similarity 94.4%; Pred. No. 1.2e+03;
      Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY      1820 TCCTGCTCTGGGAGATCT 1837
      ||||| ||||| ||||| |||||
DB      4 TCCTCTCTGGGAGATCT 21
RESULT 901
ADD44681/c
ID      ADD44681 standard; DNA; 21 BP.
XX      ADD44681;
XX      15-JAN-2004 (first entry)
XX      DNA encoding pLC671 partial sequence with insert #1.
XX      human; tumour necrosis factor alpha; vascular inflammation; anti-TNF;
KW      tumour necrosis factor; cA2; Kawasaki's pathology;
KW      disseminated intravascular coagulation; atherosclerosis; ds; gene.
OS      Synthetic.
OS      Homo sapiens.
XX      Key      Location/Qualifiers
FH      CDS      10..21
FT      /tag= a
FT      US2003181695-A1.
XX      25-SEP-2003.
XX      21-FEB-2003; 2003US-00371961.
XX      18-MAR-1991; 91US-00670827.
PR      18-MAR-1992; 92US-00853606.

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PR      11-SEP-1992; 92US-00943852.
PR      29-JAN-1993; 93US-00010406.
PR      02-FEB-1993; 93US-00013413.
PR      04-FEB-1994; 94US-00192093.
PR      04-FEB-1994; 94US-00192102.
PR      04-FEB-1994; 94US-00192861.
PR      18-OCT-1994; 94US-00324799.
PR      11-DEC-1995; 95US-00570674.
PR      12-AUG-1998; 98US-00133119.
PR      08-JAN-2001; 2001US-00756398.
XX      (UUNY ) UNIV NEW YORK STATE.
XX      Le J, Vilcek J, Daddona P, Ghraheb J, Knight D, Siegel S;
PI      P-PSDB; ADD44680.
DR      WPI; 2003-831022/77.
XX      Treating a vascular inflammatory pathology, e.g. Kawasaki's pathology,
PT      comprises administering an anti-Tumor Necrosis Factor (TNF) chimeric
PT      antibody which competitively inhibits binding of TNF to a monoclonal
PT      antibody.
XX      Disclosure; SEQ ID NO 28; 100pp; English.
XX      The invention relates to a method of treating a vascular inflammatory
CC      pathology in a human, comprising administering a single or divided 0.5-15
CC      mg/kg dose at least once every 1-6 weeks of an anti-tumour necrosis
CC      factor (TNF) chimeric antibody which competitively inhibits binding of
CC      TNF to monoclonal antibody cA2. The invention is used to treat a vascular
CC      inflammatory pathology particularly Kawasaki's pathology or disseminated
CC      intravascular coagulation or atherosclerosis. The present sequence
CC      represents DNA encoding the pLC671 partial sequence with insert #1.
XX      Sequence 21 BP; 5 A; 1 C; 8 G; 7 T; 0 U; 0 Other;
SQ      Query Match      0.4%; Score 16.4; DB 1; Length 21;
      Best Local Similarity 94.4%; Pred. No. 1.2e+03;
      Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY      1506 CTCCTTCGACACCTGCAA 1523
      ||||| ||||| ||||| |||||
DB      19 CTCCTTCGACACCTGCAA 2
RESULT 902
ADD64185/c
ID      AAD64185 standard; DNA; 21 BP.
XX      AAD64185;
XX      12-FEB-2004 (first entry)
XX      pLC871 plasmid partial DNA fragment #2.
XX      Human; joint inflammation; tumour necrosis factor; TNF; joint stiffness;
KW      rheumatoid arthritis; systemic lupus erythematosus; diabetes mellitus;
KW      angioinosis; autoimmune pathology; graft versus host disease; cachexia;
KW      scleroderma; infection; circulatory collapse; inflammatory disease;
KW      inflammatory bowel disease; neurodegenerative disease; sepsis syndrome;
KW      Crohn's disease; ulcerative colitis; multiple sclerosis; angiogenesis;
KW      Huntington's disease; Alzheimer's disease; cancer-related angiogenesis;
KW      lymphoma; infantile haemangioma; alcohol-induced hepatitis; cytostatic;
KW      ocular neovascularisation; antiinflammatory; dermatological; neotropic;
KW      immunosuppressive; neuroprotective; hepatotropic; antiangiogenic;
KW      chimeric; gene; ds.
XX      Chimeric - Homo sapiens.
OS      Chimeric - Unidentified.
XX      Key      Location/Qualifiers
FH      misc_feature 1..7
FT      /tag= a

```


CC methods and compositions are useful for treating ulcerative colitis in
CC humans. The present sequence is pLC671 plasmid partial DNA fragment used
CC in the exemplification of the invention
XX
SQ Sequence 21 BP; 5 A; 1 C; 8 G; 7 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.4; DB 1; Length 21;
Best Local Similarity 94.4%; Pred. No. 1.2e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1506 CTCCTTCGACACCTGCAA 1523
DB 19 CTCCTTCACACCTGCAA 2

RESULT 904
ADG27455/c
ID ADG27455 standard; DNA; 21 BP.
XX AC ADG27455;
XX 26-FEB-2004 (first entry)
XX pLC671 partial sequence with insert DNA #1.
DE pLC671 partial sequence with insert DNA #1.
XX psoriatic arthritis; chimeric antibody; pLC671; human; ds; gene.
XX Synthetic.
XX Homo sapiens.OS
XX US2003204066-A1.
PN
XX 30-OCT-2003.
PD
XX 21-FEB-2003; 2003US-00371962.
PF

XX 18-MAR-1991; 91US-00670827.
XX 18-MAR-1992; 92US-00853606.
PR 11-SEP-1992; 92US-00943852.
PR 29-JAN-1993; 93US-00010406.
PR 02-FEB-1993; 93US-00013413.
PR 04-FEB-1994; 94US-00192093.
PR 04-FEB-1994; 94US-00192102.
PR 04-FEB-1994; 94US-00192861.
PR 18-OCT-1994; 94US-00324799.
PR 11-DEC-1995; 95US-00570674.
PR 12-AUG-1998; 98US-00133119.
PR 08-JAN-2001; 2001US-00756398.
XX (UYN) UNIV NEW YORK STATE.
PA
XX Le J, Vilcek J, Daddona P, Ghraryeb J, Knight D, Siegel S;
PI
XX WPI; 2003-900677/82.
XX P-PSDB; ADG27454.
DR
XX Treating psoriatic arthritis in a human by administering to the human an
PT anti-TNF chimeric antibody for a period of time, where the antibody
PT inhibits binding of TNF to monoclonal antibody CA2.
XX
XX Disclosure; SEQ ID NO 28; 100pp; English.
PS
XX The invention relates to a method of treating psoriatic arthritis in a
XX human which comprises administering to the human an anti-tumour necrosis
CC factor (TNF) chimeric antibody for a period of time, where the antibody
CC inhibits binding of TNF to monoclonal antibody CA2. The method is useful
CC in treating psoriatic arthritis. The present sequence represents the
CC pLC671 partial sequence with insert DNA.
XX
XX Sequence 21 BP; 5 A; 1 C; 8 G; 7 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.4; DB 1; Length 21;
Best Local Similarity 94.4%; Pred. No. 1.2e+03;

Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1506 CTCCTTCGACACCTGCAA 1523
DB 19 CTCCTTCACACCTGCAA 2

RESULT 905
ADM83174/c
ID ADM83174 standard; DNA; 21 BP.
XX ADM83174;
XX 03-JUN-2004 (first entry)
XX pLC671 vector peptide encoding DNA #1.
DE
XX Tumour necrosis factor-alpha; TNF-alpha; pharmaceutical; diagnostic;
KW TNF-mediated pathology; therapy; gene; ds.
XX Unidentified.
OS

XX Key Location/Qualifiers
XX Intron 1..7
FT /*tag= a
FT /note= "Leader intron"
FT sig_peptide 8..21
FT /*tag= b
FT /note= "Leader sequence"
FT CDS 10..21
FT /*tag= c
FT /product= "pLC671 vector peptide"
FT /partial
FT /note= "No start and stop codon"
XX

US2003175837-A1.

XX 18-SEP-2003.
XX 02-JUL-2001; 2001US-00897724.
XX

XX 18-MAR-1991; 91US-00670827.
XX 11-SEP-1992; 92US-00853606.
PR 11-SEP-1992; 92US-00943852.
PR 29-JAN-1993; 93US-00010406.
PR 02-FEB-1993; 93US-00013413.
PR 04-FEB-1994; 94US-00192093.
XX

(UYN-) UNIV NEW YORK MEDICAL CENT.

XX Le J, Vilcek J, Daddona P, Ghraryeb J, Knight D, Siegel S;
XX WPI; 2003-863846/80.
XX P-PSDB; ADM83173.
DR

XX Anti-idiotypic antibodies that bind specifically to chimeric or humanized
XX antibodies that binds to human Tumor Necrosis Factor (TNF)alpha, useful
PT for detecting TNFalpha in samples and for diagnosing TNFalpha mediated
PT diseases.
XX

XX Example XXIV; Fig 29; 90pp; English.

XX The present invention relates to anti-human tumour necrosis factor (TNF) -
XX alpha antibodies, peptides and their encoding nucleic acids. The
CC invention is useful in pharmaceutical and diagnostic compositions and
CC production and in treating TNF-mediated pathologies. The present sequence
CC is pLC671 vector peptide encoding DNA used in the invention.
XX

XX Sequence 21 BP; 5 A; 1 C; 8 G; 7 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.4; DB 1; Length 21;
Best Local Similarity 94.4%; Pred. No. 1.2e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1506 CTCCTTCGACACCTGCAA 1523
Db 19 CTCCTTCACACCTGCAA 2

RESULT 906
ADJ97999
ID ADJ97999 standard; DNA; 21 BP.
XX
AC ADJ97999;
XX
DT 06-MAY-2004 (first entry)
XX
DE Human Flk-1/KDR DNA sequence, a target for siRNA inhibition SeqID 772.
XX
KW human; ss; short interfering RNA; siRNA; angiogenesis;
KW vascular endothelial growth factor; VEGF; VEGF receptor; Flt-1;
KW Flk-1/KDR; kinase domain region; diabetic retinopathy;
KW age-related macular degeneration; inflammatory disease; psoriasis;
KW rheumatoid arthritis; cancer; breast; retinoblastoma; Wilms' tumour;
KW lymphoma; cytostatic; antidiabetic; ophthalmological; antiinflammatory;
KW antipsoriatic; antirheumatic; antiarthritic.
XX
OS Homo sapiens.
XX
PN WO2004009769-A2.
XX
PD 29-JAN-2004.
XX
XX 18-JUL-2003; 2003WO-US022444.
XX
PF 24-JUL-2002; 2002US-0398417P.
PR 14-NOV-2002; 2002US-00294228.
XX
XX (UYPE-) UNIV PENNSYLVANIA.
XX
XX Tolentino MJ, Reich SJ;
XX WPI; 2004-203472/19.
XX
XX Novel short interfering RNA (siRNA) comprises sense and antisense RNA
XX strands, useful for inhibiting expression of human vascular endothelial
XX growth factor mRNA, for treating angiogenic disease, e.g. diabetic
XX retinopathy and cancer.
XX
PS Disclosure; SEQ ID NO 772; 218pp; English.

CC This invention relates to novel compositions that comprise short
CC interfering RNA (siRNA) molecules, which can be used to inhibit
CC angiogenesis. Specifically, it refers to siRNAs that target and cause
CC RNAi-induced degradation of mRNA from human vascular endothelial growth
CC factor (VEGF), the VEGF receptor (Flt-1) and the Flk-1/KDR (kinase domain
CC region) genes, as well as mutants derived thereof. The present invention
CC describes sense and antisense RNA strands that form an RNA duplex and
CC bind to the target mRNA, such that expression is inhibited and the target
CC degraded. As such, siRNA administered in combination with a therapeutic
CC agent is useful for treating diseases associated with angiogenesis and
CC the overexpression of VEGF, which include diabetic retinopathy, age-
CC related macular degeneration, inflammatory disease, psoriasis and
CC rheumatoid arthritis. Furthermore, it can be used to treat various
CC cancers including breast, retinoblastoma, Wilms' tumour and lymphoma.
CC Accordingly, these compositions exhibit cytostatic, antidiabetic,
CC ophthalmological, antiinflammatory, antipsoriatic, antirheumatic and
CC antiarthritic activities. This oligonucleotide is a human Flk-1/KDR DNA
CC oligo, a target for siRNA inhibition of the invention.

XX
XX Sequence 21 BP; 5 A; 3 C; 8 G; 5 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.4; DB 1; Length 21;
Best Local Similarity 94.4%; Pred. No. 1.2e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1584 GGGCATGGAGTACTTGGC 1601
Db 3 GGGCATGGAGTCTTGGC 20

RESULT 907
AAZ23807
ID AAZ23807 standard; DNA; 22 BP.
XX
AC AAZ23807;
XX
DT 18-JAN-2000 (first entry)
XX
DE Human Kv6.2 DNA containing an intron/exon boundary.
XX
KW Kv6.2; potassium channel protein; Kv2.1; myocardium; hippocampus; stroke;
KW propafenone; voltage-dependent potassium channel; therapy; treatment;
KW class IC anti-arrhythmic; cardiovascular disease; nervous system disease;
KW antihypertensive; cardioprotectant; learning disorder; memory disorder;
KW neurodegenerative disorder; epilepsy; ischemia; Parkinson's disease;
KW Alzheimer's disease; ss.
XX
OS Homo sapiens.
XX
PN DE19841413-C1.
XX
PD 23-SEP-1999.
XX
PF 06-AUG-1998; 98DE-01041413.
PR 06-AUG-1998; 98DE-01041413.
XX
XX (GENI-) FORSCHUNGSGESELLSCHAFT GENION MBH.
XX
PI Netzer R, Pongs O;
XX WPI; 1999-519712/44.
XX P-PSDB; AAY50345.
XX
XX New potassium channel protein, Kv6.2, used to screen for specific
XX modulators, potentially useful e.g. as antiarrhythmic agents.
XX
PS Disclosure; Page 22; 42pp; German.

CC This invention describes a novel potassium channel protein (I) Kv6.2.
CC This protein forms, with the protein Kv2.1, voltage-dependent potassium
CC channels that are expressed preferentially in the myocardium and
CC hippocampus and have high affinity for propafenone. The channels are used
CC to identify specific modulators which are potentially useful as
CC therapeutic agents, particularly as class IC anti-arrhythmics, but more
CC generally agents for treating cardiovascular or nervous system diseases,
CC e.g. antihypertensives or cardioprotectants, or for treating learning and
CC memory disorders or neurodegenerative disorders such as epilepsy.
CC ischemia, stroke, or Parkinson's or Alzheimer's diseases. Nucleic acid
CC that encodes (I) is used for recombinant production of (I), particularly
CC to generate cells for drug screening. (I) is also used to raise specific
CC antibodies. This sequence encodes a fragment of the human Kv6.2 protein
CC which corresponds to an intron/exon boundary

XX
XX Sequence 22 BP; 4 A; 4 C; 13 G; 1 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.4; DB 1; Length 22;
Best Local Similarity 94.4%; Pred. No. 1.2e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 850 GCCGAGGAGGAGCTGGTG 867
Db 1 GCCGAGGAGGAGCGGTG 18

RESULT 908
ADF87858/C
ID ADF87858 standard; DNA; 22 BP.

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XX AC ADF87858;
XX DT 26-FEB-2004 (first entry)
XX DE Single nucleotide polymorphism detection primer, SEQ ID NO 1441.
XX KW human; single nucleotide polymorphism; microarray; side effect; ss;
XX KW primer; PCR.
XX OS Synthetic.
XX OS Homo sapiens.
XX PN JP2003235571-A.
XX PD 26-AUG-2003.
XX PF 12-FEB-2002; 2002JP-00034717.
XX PR 12-FEB-2002; 2002JP-00034717.
XX PA (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN.
XX DR WPI; 2003-820454/77.
XX PT Novel polynucleotide useful for detecting single nucleotide polymorphisms
XX PT in human gene.
XX PS Claim 2; SEQ ID NO 1441; 704pp; Japanese.
XX CC The invention relates to a novel polynucleotide isolated and purified
XX CC from a human gene having any one of 935 fully defined sequences as given
XX CC in specification, or a sequence having a base substitution. The invention
XX CC further relates to: an oligonucleotide containing single nucleotide
XX CC polymorphisms; a PCR primer set chosen from the combination of two DNA
XX CC fragments from any one of 1220 fully defined sequences as given in
XX CC specification; a labelling probe containing the SNP containing oligo; and
XX CC a microarray equipped with the SNP containing oligo. The isolated human
XX CC gene of the invention is useful for detecting the single nucleotide
XX CC polymorphisms in human gene. The isolated human gene is also useful for
XX CC diagnosis of disease and determination of side effect to a medical agent.
XX CC The isolated human gene is also effective in detecting single nucleotide
XX CC polymorphisms in a human gene. This polynucleotide sequence represents
XX CC one of the PCR primers used in the single nucleotide polymorphism
XX CC detection method of the invention.
XX SQ Sequence 22 BP; 10 A; 8 C; 3 G; 1 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.4; DB 1; Length 22;
Best Local Similarity 94.4%; Pred. No. 1.2e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2334 CGTGTGTGTGTGTGTGTG 2351
DB 19 CTTGTGTGTGTGTGTGTG 2

RESULT 909
AAQ88807
ID AAQ88807 standard; cDNA to mRNA; 23 BP.
XX AC AAQ88807;
XX DT 25-MAR-2003 (revised)
XX DT 27-APR-1995 (first entry)
XX DE BopCar I, bovine parathyroid calcium receptor PCR primer.
XX KW BopCar I; bovine parathyroid calcium receptor; hyperparathyroidism; ss.
XX OS Synthetic.
XX PN WO9418959-A1.

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XX 01-SEP-1994.
XX 23-FEB-1993; 93WO-US001642.
XX 23-FEB-1993; 93WO-US001642.
XX (BGHM ) BRIGHAM & WOMENS HOSPITAL.
XX PA (NPSP-) NPS PHARM INC.
XX Nemeth EF, Brown EM, Hebert SC, Van Wagenen BC, Balandrin MF;
XX Fuller FH, Del Mar EG;
XX WPI; 1994-293958/36.
XX Compan. contg. partly new calci-mimetic and calcilytic cpds. - for
XX PT treating parathyroidism, paget's disease etc. and for diagnosis, also new
XX PT ion receptors and associated nucleic acid, antibodies and transgenic
XX PT animals.
XX PS Disclosure; Page 100; 283pp; English.
XX CC AAQ88807 was used in combination with AAQ88808 as primers for the PCR
XX CC amplification of BopCar I, bovine parathyroid calcium receptor, which was
XX CC used to test the effectiveness of new calci-mimetics that mimics the
XX CC action of extracellular Ca ions. These calci-mimetics can be used in the
XX CC treatment of a variety of diseases associated with abnormal levels of Ca
XX CC in cells, blood and plasma, specifically hyperparathyroidism. (Updated on
XX CC 25-MAR-2003 to correct PN field.)
XX SQ Sequence 23 BP; 2 A; 6 C; 2 G; 6 T; 0 U; 7 Other;

Query Match 0.4%; Score 16.4; DB 1; Length 23;
Best Local Similarity 70.0%; Pred. No. 1.3e+03;
Matches 14; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 921 CTTCTTCCTGTTCATCCTGG 940
DB 3 CTWCTTCYTKTSAMCCTSG 22

RESULT 910
AAQ94426/C
ID AAQ94426 standard; DNA; 23 BP.
XX AC AAQ94426;
XX DT 25-MAR-2003 (revised)
XX DT 01-NOV-1995 (first entry)
XX DE Human Rse rPTK primer.
XX KW RSE; receptor protein tyrosine kinase; rPTK; diagnostic; therapy;
XX KW neurodegenerative disease; Alzheimer disease; Parkinson disease;
XX KW kidney disease; primer; polymerase chain reaction; PCR; ss.
XX OS Synthetic.
XX PN WO9514776-A1.
XX PD 01-JUN-1995.
XX PF 15-NOV-1994; 94WO-US013214.
XX PR 23-NOV-1993; 93US-00157563.
XX PR 20-DEC-1993; 93US-00170558.
XX PA (GETH ) GENENTECH INC.
XX PA (NEWB-) NEW ENGLAND DEACONESS HOSPITAL.
XX PI Godowski PJ, Mark MR, Scadden DT;
XX WPI; 1995-206933/27.

```

XX Human and murine receptor protein tyrosine kinase(s) and corresp. DNA -
PT for stimulation of cell growth and differentiation e.g. for treatment of
PT neurodegenerative and kidney diseases.
XX Example 1; Page 57; 11pp; English.
XX Primers given in AAQ94423-26, based on conserved sequences of tyrosine
CC kinases. were used to amplify fragments of tyrosine kinase encoding genes
CC from cDNA prepared from human brain RNA as an initial step toward the
CC isolation of a new rTPK gene, Res (AAQ94421). (Updated on 25-MAR-2003 to
XX correct PN field.)
XX Sequence 23 BP; 8 A; 6 C; 4 G; 3 T; 0 U; 2 Other;
SQ Query Match 0.4%; Score 16.4; DB 1; Length 23;
Best Local Similarity 77.3%; Pred. No. 1.3e+03;
Matches 17; Conservative 2; Mismatches 3; Indels 0; Gaps 0;
QY 1801 GAGCTCTGGTCCCTTGGGGTCC 1822
||:|||||||
Db 23 GAGTGTGGTCTTGGAAATTC 2
RESULT 911
ABX76679
ID ABX76679 standard; DNA; 23 BP.
XX
AC ABX76679;
XX
DT 04-APR-2003 (first entry)
XX
DE Mouse heavy chain variable region PCR primer VH7 back #1.
XX
KW Botulinum neurotoxin type A; BoNT/A; ss; PCR; primer; mouse; scFv;
KW antibody; botulism; antibacterial; single chain antibody; immunoglobulin.
XX
OS Mus sp.
XX
PN US2002155114-A1.
XX
PD 24-OCT-2002.
XX
PF 31-AUG-1998; 98US-00144886.
XX
PR 31-AUG-1998; 98US-00144886.
XX
PA (MARK/) MARKS J D.
PA (AMER/) AMERSDORFER P.
XX
PI Marks JD, Amersdorfer P;
XX
DR WPI; 2003-182618/18.
XX
PT Novel antibody that specifically binds and neutralizes botulinum
PT neurotoxin type A useful for neutralizing botulinum neurotoxin and
PT treating botulism.
XX
PS Example 1; Page 17; 31pp; English.
XX
CC The invention relates to an isolated antibody that specifically binds to
CC an epitope specifically bound by an antibody expressed by a clone such as
CC clone S25, C25, C39, IC6 and clone IF3, where the antibody binds to and
CC neutralises botulinum neurotoxin type A (BoNT/A). Also included are a
CC polypeptide comprising BoNT/A neutralising epitope comprising an epitope
CC which is specifically bound by the antibody, where the polypeptide is not
CC a full-length botulinum neurotoxin H₃ fragment and making an anti-BoNT/A
CC antibody that neutralises BoNT/A (by contacting several antibodies with
CC an epitope specifically bound by an antibody expressed by any of the
CC novel clones and isolating an antibody that specifically binds to the
CC epitope). The antibody is useful for neutralising a BoNT/A, by contacting
CC botulinum neurotoxin type A with the antibody comprising VH CDR (heavy
CC chain variable region complementarity determining region) and with a

CC second anti-BoNT/A antibody which comprises a VH CDR, where the second
CC antibody binds to a different epitope than the first anti-BoNT/A
CC antibody. The antibody is useful in the treatment of pathologies
CC associated with botulinum neurotoxin poisoning, for rapid
CC detection/diagnosis of botulism and in the detection and/or
CC quantification of BoNT/A in a biological sample obtained from an organism
CC which is indicative of a Clostridium botulinum infection of the organism.
CC The present sequence is a PCR primer used to amplify mouse immunoglobulin
CC genes for isolation/expression of the single chain antibodies (scFv) of
CC the invention
XX
SQ Sequence 23 BP; 4 A; 2 C; 10 G; 5 T; 0 U; 2 Other;
Query Match 0.4%; Score 16.4; DB 1; Length 23;
Best Local Similarity 77.3%; Pred. No. 1.3e+03;
Matches 17; Conservative 2; Mismatches 3; Indels 0; Gaps 0;
QY 853 GAGGAGGAGCTGGTGGAGGCTG 874
||:|||||||
Db 1 GAGTGAAGCTGGTGGARTCTG 22
RESULT 912
ABZ83680/C
ID ABZ83680 standard; DNA; 23 BP.
XX
AC ABZ83680;
XX
DT 14-MAY-2003 (first entry)
XX
DE Toxicologically relevant human PCR primer #839.
XX
KW Toxicologically relevant gene; toxicological response; PCR primer; ss.
XX
OS Homo sapiens.
OS Synthetic.
XX
PN WO2003016500-A2.
XX
PD 27-FEB-2003.
XX
PF 16-AUG-2002; 2002WO-US026514.
XX
PR 16-AUG-2001; 2001US-0313080P.
XX
PA (PHAS-) PHASE-1 MOLECULAR TOXICOLOGY INC.
XX
PI Neft RE, Dunn RT, Adkins K, Pickett GG, Kier LD, Schweizer K;
PI Alen P;
XX
DR WPI; 2003-268322/26.
XX
PT Determining a toxicological response to an agent, useful for screening of
PT drugs, comprises comparing the expression profile of one or more human
PT toxic response genes to a reference gene expression profile indicative of
PT toxicity.
XX
PS Claim 1; Page 258; 455pp; English.
XX
CC The present invention describes a method (M1) for determining a
CC toxicological response to an agent, which comprises comparing the
CC expression profile of one or more human toxic response genes to a
CC reference gene expression profile indicative of toxicity, and so
CC determining the presence of a toxic response to the agent. Also
CC described: (1) an array comprising one or more polynucleotides selected
CC from the genes corresponding to the partial sequences given in ABZ82842
CC ; and (2) determining if a gene putatively identified to be a toxic
CC response gene plays a role on toxic response pathways by determining the
CC expression profile of the gene after exposure of cells or a human subject
CC to a known toxic pharmaceutical or industrial agent, comprising: (a)
CC exposing cells to an agent or isolating cells from a human subject who
CC was exposed to an agent; (b) obtaining the test gene expression profile

CC for a putatively identified toxic response gene after exposure to a known
CC toxic pharmaceutical or industrial agent; and (c) comparing the test
CC profile to the expression profile of a gene with a similar function or
CC comparing the test profile to the expression profile of that gene after
CC exposure to other known toxic compounds. The methods are useful for
CC predicting and determining toxicological responses on a cellular, organ
CC or system level. The arrays comprising the human genes are useful for
CC toxicological screening of drugs, pharmaceutical compounds and chemicals
XX
SQ Sequence 23 BP; 3 A; 10 C; 4 G; 6 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.4; DB 1; Length 23;
Best Local Similarity 94.4%; Pred. No. 1.3e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 251 TGGCAAGAGCTGCTGG 268
Db 19 TGGCAAGAGCTGCTGG 2

RESULT 913
ADO58024
ID ADO58024 standard; DNA; 23 BP.

AC ADO58024;
DT 12-AUG-2004 (first entry)
DE B cell VH/VL region cloning half nested PCR primer, HUVHBCK5.

XX B cell; surface immunoglobulin; Ig; binding site; antigen; human CD28;
KW closed system; detection laser-beam; catcher tube;
KW electrochemical device; fluorescence activated cell sorter; FACS;
KW antibody variable region; primer; ss; human.

XX Homo sapiens.
OS
PN WO2004044584-A1.
PD 27-MAY-2004.

XX 12-NOV-2003; 2003WO-EP012664.
XX 13-NOV-2002; 2002EP-00025335.
XX (MICR-) MICROMET AG.

XX Baeuerle P, Hoffmann P, Weinberger S, Kischel R;
PI WPI; 2004-449579/42.

XX Identifying a B cell carrying a surface immunoglobulin molecule having a
PT binding site for an antigen of interest, useful for constructing
PT therapeutic antibodies, comprises contacting a sample with the antigen
PT and a receptor.

XX Example 5; SEQ ID NO 24; 156pp; English.

XX The invention relates to a novel method for identifying a B cell carrying
CC a surface immunoglobulin (Ig) molecule having a binding site for an
CC antigen of interest. The method comprises contacting a sample putatively
CC containing the B cell with the antigen of interest and with a receptor
CC specifically binding to the Ig molecule, and assessing the presence of
CC the detectable signal. The invention further comprises: an antibody
CC generated by the method above which is specific for human CD28 or
CC comprising an amino acid(s) sequence(s) given in the specification,
CC and/or are encoded by a nucleic acid sequence(s) also given in the
CC specification; and a device for assessing the presence of a detectable
CC signal defined above, where the device comprises a closed system for the
CC detection laser-beam and a catcher tube, and where the B cell of interest
CC can be collected as a single cell by means of an electrochemical device,
CC which is triggered by an electric signal generated by the fluorescence
CC activated cell sorter (FACS) device, where the electrochemical device

CC moves the nozzle of the steady catcher tube liquid stream for a
CC programmed time over a collecting tube, microtiter plate or other
CC container after a B cell is sorted. The method is useful for identifying
CC a B cell carrying a surface Ig molecule having a binding site for an
CC antigen of interest. The method is also useful for cloning of antibody
CC variable regions from the identified B cells, which may subsequently be
CC employed in the construction of proteins such as antibodies or its
CC fragments or derivatives useful in therapeutic approaches. The method is
CC useful as an alternative to phage display for the gain of antibodies or
CC its fragments. This polynucleotide sequence represents a primer used in
CC the exemplification of the invention.

XX
SQ Sequence 23 BP; 3 A; 3 C; 10 G; 5 T; 0 U; 2 Other;
Query Match 0.4%; Score 16.4; DB 1; Length 23;
Best Local Similarity 77.3%; Pred. No. 1.3e+03;
Matches 17; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 853 GAGGAGGAGCTGTGGAGGCTG 874
Db 1 SAGGTGACGTGTGGARTCTG 22

RESULT 914
ADO58025
ID ADO58025 standard; DNA; 23 BP.

AC ADO58025;
DT 12-AUG-2004 (first entry)

XX B cell VH/VL region cloning half nested PCR primer, HUVHBCK6.

XX B cell; surface immunoglobulin; Ig; binding site; antigen; human CD28;
KW closed system; detection laser-beam; catcher tube;
KW electrochemical device; fluorescence activated cell sorter; FACS;
KW antibody variable region; primer; ss; human.

XX Homo sapiens.
OS
PN WO2004044584-A1.
PD 27-MAY-2004.

XX 12-NOV-2003; 2003WO-EP012664.
XX 13-NOV-2002; 2002EP-00025335.
XX (MICR-) MICROMET AG.

XX Baeuerle P, Hoffmann P, Weinberger S, Kischel R;
PI WPI; 2004-449579/42.

XX Identifying a B cell carrying a surface immunoglobulin molecule having a
PT binding site for an antigen of interest, useful for constructing
PT therapeutic antibodies, comprises contacting a sample with the antigen
PT and a receptor.

XX Example 5; SEQ ID NO 25; 156pp; English.

XX The invention relates to a novel method for identifying a B cell carrying
CC a surface immunoglobulin (Ig) molecule having a binding site for an
CC antigen of interest. The method comprises contacting a sample putatively
CC containing the B cell with the antigen of interest and with a receptor
CC specifically binding to the Ig molecule, and assessing the presence of
CC the detectable signal. The invention further comprises: an antibody
CC generated by the method above which is specific for human CD28 or
CC comprising an amino acid(s) sequence(s) given in the specification,
CC and/or are encoded by a nucleic acid sequence(s) also given in the
CC specification; and a device for assessing the presence of a detectable
CC signal defined above, where the device comprises a closed system for the
CC detection laser-beam and a catcher tube, and where the B cell of interest

CC can be collected as a single cell by means of an electrochemical device,
 CC which is triggered by an electric signal generated by the fluorescence
 CC activated cell sorter (FACS) device, where the electrochemical device
 CC moves the nozzle of the steady catcher tube liquid stream for a
 CC programmed time over a collecting tube, microtiter plate or other
 CC container after a cell is sorted. The method is useful for identifying
 CC a B cell carrying a surface Ig molecule having a binding site for an
 CC antigen of interest. The method is also useful for cloning of antibody
 CC variable regions from the identified B cells, which may subsequently be
 CC employed in the construction of proteins such as antibodies or its
 CC fragments or derivatives useful in therapeutic approaches. The method is
 CC useful as an alternative to phage display for the gain of antibodies or
 CC its fragments. This polynucleotide sequence represents a primer used in
 CC the exemplification of the invention.

SQ Sequence 23 BP; 3 A; 3 C; 11 G; 3 T; 0 U; 3 Other;

Query Match 0.4%; Score 16.4; DB 1; Length 23;
 Best Local Similarity 77.3%; Pred. No. 1.3e+03;
 Matches 17; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 853 GAGGAGGAGCTGGTGGAGCTG 874

Db 1 GAGGTGAGCTGTGTGGAGTCY 22

RESULT 915

AAQ27544
 ID AAQ27544 standard; DNA; 21 BP.

XX AC AAQ27544;

XX 29-JAN-1993 (first entry)

DE PCR Primer T1 corresponds to TKF receptor nts. 619-639.

XX TKF; tumour diagnosis; polymerase chain reaction; anchor PCR;
 KW fibroblast growth factor; human; Tyrosine Kinase receptor; ss.

XX Synthetic.

PN DB4104240-A.

XX 13-AUG-1992.

XX 12-FEB-1991; 91DE-04104240.

XX 12-FEB-1991; 91DE-04104240.

XX (GEOR-) GEORG-SPEYER-HAUS CHEMOTHERAPEUTISCHES.

XX Holtrich U, Braeuninger A, Strebhardt K, Ruebsamen-Waigmann H;

XX WPI; 1992-277527/34.

XX New tyrosine kinase receptor protein related to FGF receptor proteins -
 PT and corresponding DNA sequences, used in treatment and diagnosis of lung
 PT tumours.

XX Example 3; Page 11; 12pp; German.

XX Primer T1 was used with primer P6(2) (see AAQ27540) to PCR-amplify a
 CC probe suitable for screening a human lung tissue cDNA library for
 CC identifying a TKF receptor clone. See also AAQ27539-Q27543

SQ Sequence 21 BP; 4 A; 7 C; 6 G; 4 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.2; DB 1; Length 21;
 Best Local Similarity 85.7%; Pred. No. 1.2e+03;
 Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1603 TCCGAGAGTGTATCCACAGG 1623

Db 1 TCCGAGAGTGTATCCACCGG 21

RESULT 916

AAAT63277
 ID AAT63277 standard; DNA; 21 BP.

XX AC AAT63277;

XX 21-MAY-1997 (first entry)

DE HGF receptor gene upstream primer binds bases 3993-4013.

XX Cornea; proliferation; in vivo; hepatocyte growth factor; injury; PCR;
 KW keratinocyte growth factor; ocular surgery; epithelium; endothelium;
 KW expression; receptor; polymerase chain reaction; amplification; primer;
 KW healing; beta-actin; upstream; downstream; intron; ss.

XX Synthetic.

PN US5589451-A.

XX 31-DEC-1996.

XX 21-SEP-1992; 92US-00947683.

XX 21-SEP-1992; 92US-00947683.

XX (TEXA) UNIV TEXAS SYSTEM.

XX PI Wilson SE;

XX WPI; 1997-076878/07.

XX Promoting or suppressing corneal cell proliferation - using hepatocyte
 PT growth factor or calcium ions resp., e.g. for treating corneal injury or
 PT for preserving corneal tissue prior to transplantation.

XX Example 1; Col 11-12; 25pp; English.

XX The invention relates to methods for promoting corneal cell proliferation
 CC in vivo by treating the cells with hepatocyte growth factor (HGF) and
 CC optionally keratinocyte growth factor (KGF). Methods for suppressing
 CC corneal cell growth include administering Ca ions to the cells. The
 CC methods are used for the treatment of corneal tissue injury following
 CC accidental injury, ocular surgery or due to corneal disorders caused by
 CC abnormal healing processes of the corneal epithelium and endothelium. The
 CC methods are based on the discovery that corneal tissue can express mRNA
 CC for HGF, KGF and their respective receptors. The discovery was shown by
 CC PCR amplification using the primers AAT63273-87. Primers AAT63277-8 were
 CC used to amplify a 342 bp fragment of the HGF receptor cDNA. This primer
 CC is the upstream amplification primer and corresponds to bases 3993-4013
 CC of the HGF receptor gene. The amplified fragment was detected using probe
 CC AAT63279

SQ Sequence 21 BP; 0 A; 7 C; 6 G; 8 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.2; DB 1; Length 21;
 Best Local Similarity 85.7%; Pred. No. 1.2e+03;
 Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1807 TGGTCTTTGGGGTCTGCTC 1827

Db 1 TGGTCTTTGGGGTCTGCTC 21

RESULT 917

AAAT62925
 ID AAT62925 standard; DNA; 21 BP.

XX AC AAT62925;

XX 09-JAN-1998 (first entry)

XX Neoplastic disease protein upstream PCR primer.
DE Liver neoplastic disease; cirrhosis; hepatocellular carcinoma;
KW adenomatous hyperplasia; adenoma; liver; PCR; primer; ss;
KW polymerase chain reaction.
XX Synthetic.
OS
XX WO9711968-A2.
PN
XX 03-APR-1997.
PD
XX 10-SEP-1996; 96WO-US014487.
PF
XX 27-SEP-1995; 95US-005333996.
PR
XX (CEDA-) CEDARS SINAI MEDICAL CENT.
PA
XX Demetrious AA, Ljubimova JY;
PI
XX WPI; 1997-212852/19.
DR
XX New marker gene for liver neoplastic disease - used for developing
PT products for the diagnosis and therapy of diseases such as liver
PT cirrhosis and hepatocellular carcinoma.
PT
XX Example 3; Page 27; 34pp; English.
PS
XX This PCR primer was used to amplify reverse transcribed cDNA which
CC encodes a protein that is associated with liver neoplastic diseases, such
CC as cirrhosis and hepatocellular carcinoma. This cDNA was obtained by
CC reverse transcription of mRNA extracted from liver samples obtained from
CC liver biopsy patients. The protein is not found in normal non-neoplastic
CC livers, and its presence can therefore be used for diagnostic purposes.
CC Antibodies to this protein have been produced and are expected to have
CC some use in diagnosis, by detecting the presence or absence of the
CC protein using, e.g. ELISA assays. The antibodies may also be used in the
CC prevention and treatment of liver neoplastic diseases. The invention also
CC includes antisense oligonucleotides, and DNA sequences encoding antisense
CC oligonucleotides. These components may help in the treatment of liver
CC neoplastic diseases, by inhibiting disease development
XX
SQ Sequence 21 BP; 0 A; 7 C; 6 G; 8 T; 0 U; 0 Other;
Query Match 0.4%; Score 16.2; DB 1; Length 21;
Best Local Similarity 85.7%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 1807 TGGTCCTTTGGGCTCCTGCTC 1827
Db 1 TGGTCCTTTGGGCTCCTGCTC 21
RESULT 918
AAV05489
ID AAV05489 standard; DNA; 21 BP.
XX
XX AAV05489;
AC
XX 01-MAY-1998 (first entry)
DT
XX Upstream primer for HGF receptor DNA.
DE
XX Inhibition; corneal epithelial cell; differentiation; treatment;
KW hepatocyte growth factor; HGF; keratinocyte growth factor; KGF; dry eye;
KW keratoconjunctivitis sicca; PCR primer; receptor; ss.
XX
XX Synthetic.
OS
XX Homo sapiens.
XX
XX US5703047-A.
PN
XX

PD 30-DEC-1997.
XX
XX 09-MAR-1995; 95US-00400323.
PF
XX 21-SEP-1992; 92US-00947683.
PR
XX (TEXA) UNIV TEXAS SYSTEM.
PA
XX Wilson SE;
XX
XX WPI; 1998-076459/07.
DR
XX Inhibition of corneal cell differentiation - by using hepatocyte growth
PT factor and/or keratinocyte growth factor.
PT
XX Example 1; Col 17-18; 36pp; English.
PS
XX The present sequence was used in the development of a novel method for
CC the inhibition of corneal epithelial cell differentiation. The method
CC comprises contacting the cells with a hepatocyte growth factor (HGF)
CC and/or keratinocyte growth factor (KGF). When HGF and KGF are both used,
CC the cells can be contacted with them sequentially or simultaneously. The
CC HGF and/or KGF is in a timed release delivery system, especially
CC comprising biodegradable polymer microcapsules. The HGF and/or KGF are
CC administered topically. The method is used for treating dry eye,
CC especially keratoconjunctivitis sicca
XX
SQ Sequence 21 BP; 0 A; 7 C; 6 G; 8 T; 0 U; 0 Other;
Query Match 0.4%; Score 16.2; DB 1; Length 21;
Best Local Similarity 85.7%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 1807 TGGTCCTTTGGGCTCCTGCTC 1827
Db 1 TGGTCCTTTGGGCTCCTGCTC 21
RESULT 919
AAV64914/c
ID AAV64914 standard; DNA; 21 BP.
XX
XX AAV64914;
AC
XX 15-MAR-1999 (first entry)
DT
XX HSV-1 primer Exon 2n.
DE
XX HSV-1; latency associated transcript; LAT; LATin;
KW gene transcript stabilisation; gene expression; gene therapy; PCR;
KW primer; ss.
KW
XX Synthetic.
OS
XX Human herpesvirus 1.
XX
XX WO9848004-A1.
PN
XX 29-OCT-1998.
PD
XX 17-APR-1998; 98WO-US007691.
PF
XX 18-APR-1997; 97US-0044664P.
PR
XX (WIST-) WISTAR INST ANATOMY & BIOLOGY.
PA
XX Fraser NW, Zabolotny JM, Krummenacher CF;
PI
XX WPI; 1998-609982/51.
XX
XX Increasing expression of genes having unstable RNA transcripts,
PT particularly for gene therapy - using a construct including gene flanked
PT by intron fragments that include a hairpin next to the intron
PT branchpoint.

XX Example 1; Page 23; 106pp; English.

XX This is the nucleotide sequence of primer Exon 2n, which was used with

CC primer Exon 1 (see AAV64912) in RT-PCR to characterise the splice

CC junctions of the latency associated transcript (LAT) of herpes simplex

CC virus type 1 (see AAV64893-86). The invention relates to methods of

CC stabilising unstable gene transcripts. A claimed polynucleotide

CC comprises: a polynucleotide encoding a gene product; a 5'-sequence of an

CC intron, including the splice donor and splice acceptor sites (see

CC AAV64885-86), and a 3'-sequence of the same intron, including a hairpin

CC structure (see AAV64887) next to the intron's branchpoint. A preferred

CC intron is the 2.0 kb LAT of a herpes virus. Methods and compositions

CC using the polynucleotide can be used in gene therapy and more generally

CC as research reagents, markers of gene production, in therapeutic or

CC diagnostic compositions, in drug screening and to identify transcripts

CC produced only at selected stages of the cell cycle

XX Sequence 21 BP; 0 A; 11 C; 2 G; 8 T; 0 U; 0 Other;

XX Query Match 0.4%; Score 16.2; DB 1; Length 21;

XX Best Local Similarity 85.7%; Pred. No. 1.2e+03;

XX Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 183 CGGGGAGGACGAGGCTGAGGA 203

DB 21 CGAGGAGGAAGGCGAGGAGGA 1

RESULT 920

AAAX01222

ID AAX01222 standard; DNA; 21 BP.

XX AAX01222;

XX 31-MAR-1999 (first entry)

XX Primer for antiFc epsilon RI alpha chain antibody coding sequence.

XX AntiFc epsilon RI alpha chain antibody; antibody production; human;

XX PCR primer; ss.

XX Synthetic.

XX Homo sapiens.

XX JP11000174-A.

XX 06-JAN-1999.

XX 13-JUN-1997; 97JP-00171232.

XX 13-JUN-1997; 97JP-00171232.

XX (ASAK) ASAH I BREWERIES LTD.

XX (TORI) TORII YAKUHI N KK.

XX (NIKK-) NIKKA WHISKEY KK.

XX (TSUR/) TSURA T.

XX WPI; 1999-124394/11.

XX Preparing an antibody Fab fragment using yeast - in high yield.

XX Example 2; Page 4; 13pp; Japanese.

XX This sequence represents a PCR primer for DNA encoding a human antiFc

CC epsilon RI alpha chain antibody, produced using the method of the

CC invention. The method is for preparing an antibody Fab fragment using the

CC yeast Pichia pastoris as the host cell. The method can prepare an

CC antibody Fab fragment cost efficiently and in high yield

XX Sequence 21 BP; 3 A; 3 C; 10 G; 5 T; 0 U; 0 Other;

XX Query Match 0.4%; Score 16.2; DB 1; Length 21;

XX Best Local Similarity 85.7%; Pred. No. 1.2e+03;

XX Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

PS Example 1; Page 23; 106pp; English.

XX This is the nucleotide sequence of primer Exon 2n, which was used with

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CC AAV64885-86), and a 3'-sequence of the same intron, including a hairpin

CC structure (see AAV64887) next to the intron's branchpoint. A preferred

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CC diagnostic compositions, in drug screening and to identify transcripts

CC produced only at selected stages of the cell cycle

XX Sequence 21 BP; 0 A; 11 C; 2 G; 8 T; 0 U; 0 Other;

XX Query Match 0.4%; Score 16.2; DB 1; Length 21;

XX Best Local Similarity 85.7%; Pred. No. 1.2e+03;

XX Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 183 CGGGGAGGACGAGGCTGAGGA 203

DB 21 CGAGGAGGAAGGCGAGGAGGA 1

RESULT 920

AAAX01222

ID AAX01222 standard; DNA; 21 BP.

XX AAX01222;

XX 31-MAR-1999 (first entry)

XX Primer for antiFc epsilon RI alpha chain antibody coding sequence.

XX AntiFc epsilon RI alpha chain antibody; antibody production; human;

XX PCR primer; ss.

XX Synthetic.

XX Homo sapiens.

XX JP11000174-A.

XX 06-JAN-1999.

XX 13-JUN-1997; 97JP-00171232.

XX 13-JUN-1997; 97JP-00171232.

XX (ASAK) ASAH I BREWERIES LTD.

XX (TORI) TORII YAKUHI N KK.

XX (NIKK-) NIKKA WHISKEY KK.

XX (TSUR/) TSURA T.

XX WPI; 1999-124394/11.

XX Preparing an antibody Fab fragment using yeast - in high yield.

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CC invention. The method is for preparing an antibody Fab fragment using the

CC yeast Pichia pastoris as the host cell. The method can prepare an

CC antibody Fab fragment cost efficiently and in high yield

XX Sequence 21 BP; 3 A; 3 C; 10 G; 5 T; 0 U; 0 Other;

XX Query Match 0.4%; Score 16.2; DB 1; Length 21;

XX Best Local Similarity 85.7%; Pred. No. 1.2e+03;

XX Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

PS Example 1; Page 23; 106pp; English.

XX This is the nucleotide sequence of primer Exon 2n, which was used with

CC primer Exon 1 (see AAV64912) in RT-PCR to characterise the splice

CC junctions of the latency associated transcript (LAT) of herpes simplex

CC virus type 1 (see AAV64893-86). The invention relates to methods of

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CC comprises: a polynucleotide encoding a gene product; a 5'-sequence of an

CC intron, including the splice donor and splice acceptor sites (see

CC AAV64885-86), and a 3'-sequence of the same intron, including a hairpin

CC structure (see AAV64887) next to the intron's branchpoint. A preferred

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CC using the polynucleotide can be used in gene therapy and more generally

CC as research reagents, markers of gene production, in therapeutic or

CC diagnostic compositions, in drug screening and to identify transcripts

CC produced only at selected stages of the cell cycle

XX Sequence 21 BP; 0 A; 11 C; 2 G; 8 T; 0 U; 0 Other;

XX Query Match 0.4%; Score 16.2; DB 1; Length 21;

XX Best Local Similarity 85.7%; Pred. No. 1.2e+03;

XX Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 183 CGGGGAGGACGAGGCTGAGGA 203

DB 21 CGAGGAGGAAGGCGAGGAGGA 1

RESULT 920

AAAX01222

ID AAX01222 standard; DNA; 21 BP.

XX AAX01222;

XX 31-MAR-1999 (first entry)

XX Primer for antiFc epsilon RI alpha chain antibody coding sequence.

XX AntiFc epsilon RI alpha chain antibody; antibody production; human;

XX PCR primer; ss.

XX Synthetic.

XX Homo sapiens.

XX JP11000174-A.

XX 06-JAN-1999.

XX 13-JUN-1997; 97JP-00171232.

XX 13-JUN-1997; 97JP-00171232.

XX (ASAK) ASAH I BREWERIES LTD.

XX (TORI) TORII YAKUHI N KK.

XX (NIKK-) NIKKA WHISKEY KK.

XX (TSUR/) TSURA T.

XX WPI; 1999-124394/11.

XX Preparing an antibody Fab fragment using yeast - in high yield.

XX Example 2; Page 4; 13pp; Japanese.

XX This sequence represents a PCR primer for DNA encoding a human antiFc

CC epsilon RI alpha chain antibody, produced using the method of the

CC invention. The method is for preparing an antibody Fab fragment using the

CC yeast Pichia pastoris as the host cell. The method can prepare an

CC antibody Fab fragment cost efficiently and in high yield

XX Sequence 21 BP; 3 A; 3 C; 10 G; 5 T; 0 U; 0 Other;

XX Query Match 0.4%; Score 16.2; DB 1; Length 21;

XX Best Local Similarity 85.7%; Pred. No. 1.2e+03;

XX Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

PS Example 1; Page 23; 106pp; English.

XX This is the nucleotide sequence of primer Exon 2n, which was used with

CC primer Exon 1 (see AAV64912) in RT-PCR to characterise the splice

CC junctions of the latency associated transcript (LAT) of herpes simplex

CC virus type 1 (see AAV64893-86). The invention relates to methods of

CC stabilising unstable gene transcripts. A claimed polynucleotide

CC comprises: a polynucleotide encoding a gene product; a 5'-sequence of an

CC intron, including the splice donor and splice acceptor sites (see

CC AAV64885-86), and a 3'-sequence of the same intron, including a hairpin

CC structure (see AAV64887) next to the intron's branchpoint. A preferred

CC intron is the 2.0 kb LAT of a herpes virus. Methods and compositions

CC using the polynucleotide can be used in gene therapy and more generally

CC as research reagents, markers of gene production, in therapeutic or

CC diagnostic compositions, in drug screening and to identify transcripts

CC produced only at selected stages of the cell cycle

XX Sequence 21 BP; 0 A; 11 C; 2 G; 8 T; 0 U; 0 Other;

XX Query Match 0.4%; Score 16.2; DB 1; Length 21;

XX Best Local Similarity 85.7%; Pred. No. 1.2e+03;

XX Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 183 CGGGGAGGACGAGGCTGAGGA 203

DB 21 CGAGGAGGAAGGCGAGGAGGA 1

RESULT 920

AAAX01222

ID AAX01222 standard; DNA; 21 BP.

XX AAX01222;

XX 31-MAR-1999 (first entry)

XX Primer for antiFc epsilon RI alpha chain antibody coding sequence.

XX AntiFc epsilon RI alpha chain antibody; antibody production; human;

XX PCR primer; ss.

XX Synthetic.

XX Homo sapiens.

XX JP11000174-A.

XX 06-JAN-1999.

XX 13-JUN-1997; 97JP-00171232.

XX 13-JUN-1997; 97JP-00171232.

XX (ASAK) ASAH I BREWERIES LTD.

XX (TORI) TORII YAKUHI N KK.

XX (NIKK-) NIKKA WHISKEY KK.

XX (TSUR/) TSURA T.

XX WPI; 1999-124394/11.

XX Preparing an antibody Fab fragment

KW Human; activin A; Pax4 gene; expression; potentiator; insulin;
 KW pancreatic beta cell; diabetes; PCR primer; ss.
 XX
 OS Mus sp.
 XX
 PN WO9966073-A1.
 XX
 XX 23-DEC-1999.
 XX
 XX 15-JUN-1999; 99WO-JP003182.
 XX
 PR 16-JUN-1998; 98JP-00167976.
 XX
 XX (YAMA) YAMANOUCHI PHARM CO LTD.
 PA
 XX
 PI Ueda Y;
 XX
 DR WPI; 2000-097752/08.
 XX
 XX Screening potential Pax4 gene potentiators, used in treatment of, e.g.
 PT diabetes.
 XX
 PS Disclosure; Page 17; 38pp; Japanese.
 XX
 CC The present invention describes the a method for screening potential
 CC inhibitors of the expression of the Pax4 gene by contacting the potential
 CC inhibitor with pancreatic beta cells and measuring the expression of the
 CC gene in these cells is new. Substances identified by the screening method
 CC potentiate the expression of the Pax4 gene in pancreatic beta cells and
 CC accelerate the expression of insulin gene in those cells. The method can
 CC be used in the treatment of disorders in which the exhaustion of
 CC pancreatic beta cells is involved, such as diabetes. The present sequence
 CC represents a PCR primer which is used in the exemplification of the
 CC present invention
 XX
 SQ Sequence 21 BP; 2 A; 6 C; 7 G; 6 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.2; DB 1; Length 21;
 Best Local Similarity 85.7%; Pred. No. 1.2e+03;
 Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 1608 GAAGTGCATCCACAGGACCT 1628
 DB 21 GAAGCGCATCCACAGGACCT 1

RESULT 923
 ADC78624/c
 ID ADC78624 standard; DNA; 21 BP.
 XX
 AC ADC78624;
 XX
 XX 01-JAN-2004 (first entry)
 DT
 DE Human PRO protein-related reverse PCR primer SEQ ID 312.

XX antiinflammatory; antiulcer; cytostatic; antipsoriatic; antiparkinsonian;
 KW neurotropic; neuroprotective; vasotropic; chemotactic; angiogenic;
 KW neurotrophic; osteopathic; antiasthmatic; antiarthritic; antineumatic;
 KW antiarteriosclerotic; cardiant; antidiabetic; cerebroprotective;
 KW thrombolytic; immunomodulator; enterocolitis; Zollinger-Ellison syndrome;
 KW gastrointestinal ulceration; psoriasis; cancer; Parkinson's disease;
 KW Alzheimer's; ALS; neuropathy; dermal scarring; wound healing;
 KW nerve repair; thrombosis; bone; cartilage formation; angiogenesis;
 KW asthma; rheumatoid arthritis; multiple sclerosis; inflammatory disorder;
 KW atherosclerosis; cardiac injury; infertility; premature aging; AIDS;
 KW diabetes; stroke; gene therapy; transgenic; PRO; human; ss; primer; PCR.
 XX
 OS Homo sapiens.
 XX
 PN WO200015796-A2.
 XX
 XX 23-MAR-2000.

XX 15-SEP-1999; 99WO-US021090.
 XX
 XX 16-SEP-1998; 98WO-US019330.
 XX
 XX (GETH) GENENTECH INC.
 PA
 XX
 XX Chen J, Goddard A, Gurney AL, Hillan K, Pennica D, Wood WI;
 PI Yuan J;
 XX
 XX WPI; 2000-271434/23.
 DR
 XX
 XX Novel nucleic acids encoding secreted and transmembrane polypeptides with
 PT homology, e.g. to growth and cancer-associated antigens.
 PT
 XX
 PS Example 44; SEQ ID NO 312; 355pp; English.
 XX
 CC The invention relates to a novel nucleic acid encoding a PRO polypeptide.
 CC The polypeptides and polynucleotides of the invention may be useful as
 CC research tools and as therapeutics for treating enterocolitis, Zollinger-
 CC Ellison syndrome, gastrointestinal ulceration, psoriasis, cancer,
 CC Parkinson's disease, Alzheimer's disease, ALS, neuropathies, dermal
 CC scarring and wound healing, nerve repair, thrombosis, bone and/or
 CC cartilage formation, angiogenesis, asthma, rheumatoid arthritis, multiple
 CC sclerosis, inflammatory disorders, atherosclerosis, cardiac injury,
 CC infertility, premature aging, AIDS, diabetes complications and stroke.
 CC The molecules may also be utilised during gene therapy procedures and
 CC transgenic animal production. The current sequence is that of the PCR
 CC primer of the invention which was used to analyse the human PRO DNA of
 CC the invention.
 XX
 SQ Sequence 21 BP; 4 A; 5 C; 8 G; 4 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.2; DB 1; Length 21;
 Best Local Similarity 85.7%; Pred. No. 1.2e+03;
 Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 1254 CATTGACAAAGGACCGCGCGC 1274
 DB 21 CATTTCCAGGACCTGGCGCGC 1

RESULT 924
 ABX09458/c
 ID ABX09458 standard; DNA; 21 BP.
 XX
 AC ABX09458;
 XX
 XX 22-JAN-2003 (first entry)
 DT
 DE Arteriosclerosis-detecting probe from HNF1 #4.

XX Arteriosclerosis; diagnosis; hybridisation; synergism; gene therapy;
 KW mutation; probe; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200272882-A2.
 XX
 PD 19-SEP-2002.
 XX
 XX 13-MAR-2002; 2002WO-EP002780.
 PF
 XX 13-MAR-2001; 2001DE-01011925.
 PR
 XX (OGHA-) OGHAM GMBH.
 PA
 XX Cullen P, Seedorf U;
 PI
 XX WPI; 2002-723374/78.
 DR
 XX
 XX Determining genetic risk of arteriosclerosis, for clinical diagnosis,
 PT comprises hybridizing patient nucleic acid with an array of probes

PT derived from risk-associated reference genes and their mutations.

XX Example 1; Page 126; 146pp; German.

PS This invention describes a novel method for determining the genetic risk
 CC of arteriosclerosis both for clinical diagnosis and for population
 CC studies. The method comprises: (i) selecting risk-associated reference
 CC nucleic acid sequences, including their functionally characterizing
 CC mutations; (ii) applying probes from these sequences, or their
 CC complements, to a carrier; (iii) hybridising the probes with a nucleic
 CC acid from (or synthesised from) a patient sample; and (iv) detecting and
 CC evaluating the hybridisation pattern. The method provides a quick,
 CC inexpensive and informative diagnosis, and makes possible a
 CC multifactorial analysis for detecting e.g. synergism between different
 CC mutations or mutations that when present alone carry no risk but are risk
 CC -associated in presence of other mutations. The results may be combined
 CC with known risk-assessment methods to provide a more reliable diagnosis,
 CC especially important with new therapeutic methods (e.g. gene therapy)
 CC that are directed against specific genes. All relevant mutations in a
 CC reference sequence can be screened for in a single test and the method is
 CC well suited to automation. ABX09147-ABX09676 represent probes used to
 CC illustrate the method of the invention

XX Sequence 21 BP; 2 A; 13 C; 6 G; 0 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.2; DB 1; Length 21;
 Best Local Similarity 85.7%; Pred. No. 1.2e+03;
 Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2907 CAGGATGGCCCTGGCGGGG 2927

Db 21 CGGGCTGGCCCTGGCGGGG 1

RESULT 925

ACA60810

ID ACA60810 standard; DNA; 21 BP.

AC ACA60810;

DT 01-JUL-2003 (first entry)

DE Hamster anti-CD3 epsilon antibody 145-2C11 PCR primer number 7.

XX Antibody; PD-1; J43; immunopathy; neurodegenerative disease;
 KW Parkinson's disease; Parkinson's syndrome; Huntington's disease;
 KW Machado-Joseph disease; amyotrophic lateral sclerosis; ss; PCR; primer;
 KW Creutzfeldt-Jakob disease; autoimmune disease; glomerulonephritis;
 KW arthritis; myocardiopathy-like disease; ulcerative colitis;
 KW Sjogren's syndrome; Crohn's disease; systemic erythematosis;
 KW multiple myositis; skin toughening; rheumatic fever; CD3; 145-2C11;
 KW insulin-dependent diabetes; Behcet's disease; Hashimoto disease;
 KW periarthritis nodosa; leukoderm vulgaris; Armenian hamster.

XX Cricetus migratorius.

XX WO2003011911-A1.

XX 13-FEB-2003.

XX 30-JUL-2002; 2002WO-JP007735.

XX 31-JUL-2001; 2001JP-00232303.

XX (ONOF) ONO PHARM CO LTD.

XX (HONJ/) HONJO T.

XX Honjo T, Shibayama S, Matsuo M, Yoshida T;

XX WPI; 2003-248150/24.

XX Substance specific to PD-1, selectively recognizing PD-1 and a related
 PT cell membrane protein, applicable in developing remedies or preventives

PT for diseases caused by immunopathy e.g. autoimmune diseases.

XX Example 7; Page 32; 73pp; Japanese.

XX The invention relates to a substance comprising a substance recognising
 CC PD-1 (not defined), a substance recognising a membrane protein present in
 CC the cell membrane where PD-1 is expressed, and a linker. Also included is
 CC a drug composition containing an effective dose of a remedy and/or
 CC preventive for PD-1 related diseases namely immunopathy, e.g.
 CC neurodegenerative diseases including Parkinson's disease, Parkinson's
 CC syndrome, Huntington's disease, Machado-Joseph disease, amyotrophic
 CC lateral sclerosis, and Creutzfeldt-Jakob disease, and autoimmune
 CC diseases, e.g. glomerulonephritis, arthritis, myocardiopathy-like
 CC diseases, ulcerative colitis, Sjogren's syndrome, Crohn's disease,
 CC systemic erythematosis, multiple myositis, skin toughening, rheumatic
 CC fever, insulin-dependent diabetes, Behcet's disease, Hashimoto disease,
 CC periarthritis nodosa, and leukoderm vulgaris. A chimeric protein of the
 CC invention was created comprising the light and heavy chains of the mouse
 CC anti-PD-1 antibody and the Armenian hamster anti-mouse CD3 (not defined)
 CC epsilon antibody 145-2C11. The present sequence is a PCR primer used to
 CC amplify the hamster 145-2C11 cDNA sequence

XX Sequence 21 BP; 3 A; 3 C; 10 G; 5 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.2; DB 1; Length 21;
 Best Local Similarity 85.7%; Pred. No. 1.2e+03;
 Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 853 GAGGAGGAGCTGGTGAGGCT 873

Db 1 GAGGTGACGCTGGTGAGTCT 21

RESULT 926

ADI00328/C

ID ADI00328 standard; DNA; 21 BP.

AC ADI00328;

DT 22-APR-2004 (first entry)

DE PCR primer SEQ ID 108 used to amplify human PKD-1 exon 15L DNA.

XX mutation analysis; PKD; polycystic kidney disease; human; PKD-1; ss; PCR;
 KW primer.

XX Homo sapiens.

XX US2003152936-A1.

XX 14-AUG-2003.

XX 26-FEB-2002; 2002US-00083246..

XX 12-OCT-2001; 2001US-0328739P.

XX (ATHE-) ATHENA DIAGNOSTICS INC.

XX Jones JG, Hennigan AN, Curran JA, Allen SK, Robichaud NJ, Wang J;

XX Flynn KE, Garces JA, Palatucci CM;

XX WPI; 2003-897708/82.

XX Analyzing mutations of a target nucleic acid by detecting heteroduplexes
 PT from generated duplexes, useful for diagnosing patients affected with
 PT polycystic kidney disease.

XX Disclosure; SEQ ID NO 108; 126pp; English.

XX The invention relates to a novel method of mutation analysis of a target
 CC nucleic acid which comprises incubating a sample having the target
 CC nucleic acid in a reaction mixture, in the presence of at least one first
 CC and second nucleic acid, where incubation produces amplified products,

CC generating duplexes in the amplified products and detecting the presence
CC or absence of a heteroduplex from the duplexes, where its presence
CC indicates a potential mutation in the target nucleic acid and its absence
CC indicates the absence of mutation in the target nucleic acid. The method
CC and compositions of the invention may be useful for analysing mutation
CC and diagnosing patients affected with PKD (polycystic kidney disease).
CC The current sequence is that of a PCR primer of the invention which was
CC used to amplify human polycystic kidney disease PKD-1 DNA.
XX
SQ Sequence 21 BP; 4 A; 5 C; 9 G; 3 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.2; DB 1; Length 21;
Best Local Similarity 85.7%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2239 CACCTGCTGCTGCTGCACAG 2259
DB 21 CACCTGCTGCTGCTGCACAG 1

RESULT 927
ADH47876
ID ADH47876 standard; DNA; 21 BP.
XX
AC ADH47876;
XX
DT 25-MAR-2004 (first entry)
XX
DE PCR primer for human Ig VH3 DNA framework region 1 (FR1).
XX
XX Ig-unmutated; chronic lymphocytic leukaemia; CLL;
KW small lymphocytic lymphoma; SLL; ZAP-70; cytotostatic; human; Ig VH;
KW framework region 1; FR1; PCR; primer; ss.
XX
XX Homo sapiens.
XX
XX US2003203416-A1.
XX
XX 30-OCT-2003.
XX
XX 03-DEC-2002; 2002US-00309548.
XX
XX 25-APR-2002; 2002US-0375966P.
XX
XX (USSH) US DEPT HEALTH & HUMAN SERVICES.
XX
XX Staudt LM, Rosenwald A, Wilson W, Barry TS, Wiestner A;
XX
XX WPI; 2004-141578/14.
XX
XX Detecting Ig-unmutated chronic lymphocytic leukemia in a subject involves
XX determining over expression of ZAP-70 molecule in a subject.
XX
XX Example 2; Page 13; 32pp; English.
XX
XX The present invention relates to a method of detecting Ig-unmutated
XX chronic lymphocytic leukaemia (CLL)/small lymphocytic lymphoma (SLL) in a
XX subject. The method involves determining whether the subject
XX overexpresses ZAP-70, which is used as a marker for CLL/SLL. Also
XX disclosed is a kit for detecting overexpression of ZAP-70 in a subject,
XX preferably human. The present sequence represents a PCR primer used in
XX the examples of the present invention.
XX
SQ Sequence 21 BP; 3 A; 3 C; 10 G; 5 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.2; DB 1; Length 21;
Best Local Similarity 85.7%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 854 AGGAGGCTGCTGGAGGCTG 874
DB 1 AGGTCAGCTGCTGGAGGCTG 21

RESULT 928
ADJ97642
ID ADJ97642 standard; DNA; 21 BP.
XX
XX ADJ97642;
AC
XX
DT 06-MAY-2004 (first entry)
XX
XX Human Flt-1 DNA sequence, a target for siRNA inhibition SeqID 415.
XX
XX human; ss; short interfering RNA; siRNA; angiogenesis;
KW vascular endothelial growth factor; VEGF; VEGF receptor; Flt-1;
KW Flk-1/KDR; kinase domain region; diabetic retinopathy;
KW age-related macular degeneration; inflammatory disease; psoriasis;
KW rheumatoid arthritis; cancer; breast; retinoblastoma; Wilms tumour;
KW lymphoma; cytotostatic; antidiabetic; ophthalmological; antiinflammatory;
KW antipsoriatic; antirheumatic; antiarthritic.
XX
XX Homo sapiens.
OS
XX
XX WO2004009769-A2.
XX
XX 29-JAN-2004.
XX
XX 18-JUL-2003; 2003WO-US022444.
XX
XX 24-JUL-2002; 2002US-0398417P.
XX
XX 14-NOV-2002; 2002US-00294228.
XX
XX (UYPE-) UNIV PENNSYLVANIA.
XX
XX Tolentino MJ, Reich SJ;
XX
XX WPI; 2004-203472/19.
XX
XX Novel short interfering RNA (siRNA) comprises sense and antisense RNA
XX strands, useful for inhibiting expression of human vascular endothelial
XX growth factor mRNA, for treating angiogenic disease, e.g. diabetic
XX retinopathy and cancer.
XX
XX Disclosure; SEQ ID NO 415; 218pp; English.
XX
XX This invention relates to novel compositions that comprise short
XX interfering RNA (siRNA) molecules, which can be used to inhibit
XX angiogenesis. Specifically, it refers to siRNAs that target and cause
XX RNAi-induced degradation of mRNA from human vascular endothelial growth
XX factor (VEGF), the VEGF receptor (Flt-1) and the Flk-1/KDR (kinase domain
XX region) genes, as well as mutants derived thereof. The present invention
XX describes sense and antisense RNA strands that form an RNA duplex and
XX bind to the target mRNA, such that expression is inhibited and the target
XX degraded. As such, siRNA administered in combination with a therapeutic
XX agent is useful for treating diseases associated with angiogenesis and
XX the overexpression of VEGF, which include diabetic retinopathy, age-
XX related macular degeneration, inflammatory disease, psoriasis and
XX rheumatoid arthritis. Furthermore, it can be used to treat various
XX cancers including breast, retinoblastoma, Wilms tumour and lymphoma.
XX Accordingly, these compositions exhibit cytostatic, antidiabetic,
XX ophthalmological, antiinflammatory, antipsoriatic, antirheumatic and
XX antiarthritic activities. This oligonucleotide is a human Flt-1 DNA
XX oligo, a target for siRNA inhibition of the invention.
XX
SQ Sequence 21 BP; 5 A; 5 C; 6 G; 5 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.2; DB 1; Length 21;
Best Local Similarity 85.7%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1609 AAGTCATCCACAGGACCTG 1629
DB 1 AAGTCATTCATCGGACCTG 21

```
RESULT 929
ADJ97640
ID ADJ97640 standard; DNA; 21 BP.
XX
XX
AC ADJ97640;
XX
XX
DT 06-MAY-2004 (first entry)
XX
XX
DE Human Flt-1 DNA sequence, a target for siRNA inhibition SeqID 413.
XX
XX
KW human; ss; short interfering RNA; siRNA; angiogenesis;
KW vascular endothelial growth factor; VEGF; VEGF receptor; Flt-1;
KW Flk-1/KDR; kinase domain region; diabetic retinopathy;
KW age-related macular degeneration; inflammatory disease; psoriasis;
KW rheumatoid arthritis; cancer; breast; retinoblastoma; Wilms' tumour;
KW lymphoma; cytostatic; antidiabetic; ophthalmological; antiinflammatory;
KW antipsoriatic; antirheumatic; antiarthritic.
XX
XX
OS Homo sapiens.
XX
XX
FH Key Location/Qualifiers
FT misc_feature 20..21
FT /tag= a
FT /note= "Deoxyribonucleotide (thymine)"
XX
XX
PN WO2004009769-A2.
XX
XX
PD 29-JAN-2004.
XX
XX
PF 18-JUL-2003; 2003WO-US022444.
XX
XX
PR 24-JUL-2002; 2002US-0398417P.
PR 14-NOV-2002; 2002US-00294228.
XX
XX
PA (UYPE-) UNIV PENNSYLVANIA.
XX
XX
PI Tolentino MJ, Reich SJ;
XX
XX
DR WPI; 2004-203472/19.
XX
XX
PT Novel short interfering RNA (siRNA) comprises sense and antisense RNA
PT strands, useful for inhibiting expression of human vascular endothelial
PT growth factor mRNA, for treating angiogenic disease, e.g. diabetic
PT retinopathy and cancer.
XX
XX
PS Disclosure; SEQ ID NO 413; 218pp; English.
XX
XX
CC This invention relates to novel compositions that comprise short
CC interfering RNA (siRNA) molecules, which can be used to inhibit
CC angiogenesis. Specifically, it refers to siRNAs that target and cause
CC RNAi-induced degradation of mRNA from human vascular endothelial growth
CC factor (VEGF), the VEGF receptor (Flt-1) and the Flk-1/KDR (kinase domain
CC region) genes, as well as mutants derived thereof. The present invention
CC describes sense and antisense RNA strands that form an RNA duplex and
CC bind to the target mRNA, such that expression is inhibited and the target
CC degraded. As such, siRNA administered in combination with a therapeutic
CC agent is useful for treating diseases associated with angiogenesis and
CC the overexpression of VEGF, which include diabetic retinopathy, age-
CC related macular degeneration, inflammatory disease, psoriasis and
CC rheumatoid arthritis. Furthermore, it can be used to treat various
CC cancers including breast, retinoblastoma, Wilms' tumour and lymphoma.
CC Accordingly, these compositions exhibit cytostatic, antidiabetic,
CC ophthalmological, antiinflammatory, antipsoriatic, antirheumatic and
CC antiarthritic activities. This oligonucleotide is a human Flt-1 DNA
CC oligo, a target for siRNA inhibition of the invention.
XX
XX
SQ Sequence 21 BP; 6 A; 3 C; 9 G; 3 T; 0 U; 0 Other;
Query Match 0.4%; Score 16.2; DB 1; Length 21;
Best Local Similarity 85.7%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 1574 AGGTGGCCCGGGCATGGAGT 1594
DB 1 AAGTGGCCAGGCGATGGAGT 21
RESULT 930
```

```
ADL61633/c
ID ADL61633 standard; RNA; 21 BP.
XX
XX
AC ADL61633;
XX
XX
DT 03-JUN-2004 (first entry)
XX
XX
DE Antisense RNAi DNA-RNA hybrid oligo 2 targeted to human epha2-4.
XX
XX
KW predictor set; protein tyrosine kinase biomarker; cytostatic;
KW antiangiogenic; vasotropic; vulnery; pharmacogenomic; drug sensitivity;
KW breast cancer; hypervascular disease; angiogenesis; wound healing scar;
KW human; ss; antisense; RNAi; interfering RNA; DNA-RNA hybrid; epha2-4.
XX
XX
OS Homo sapiens.
XX
XX
FH Key Location/Qualifiers
FT misc_feature 20..21
FT /tag= a
FT /note= "Deoxyribonucleotide (thymine)"
XX
XX
PN WO2004020593-A2.
XX
XX
PD 11-MAR-2004.
XX
XX
PF 26-AUG-2003; 2003WO-US026491.
XX
XX
PR 27-AUG-2002; 2002US-0406385P.
XX
XX
PA (BRIM ) BRISTOL-MYERS SQUIBB CO.
XX
XX
PI Huang F, Han X, Reeves KA, Amler L, Fairchild CR, Lee FY;
PI Shaw P;
XX
XX
DR WPI; 2004-239171/22.
XX
XX
PT New predictor sets with a plurality of polynucleotides and/or
PT polypeptides whose expression pattern predicts cell response to a
PT compound that modulates protein tyrosine kinase activity, useful in
PT treating breast cancer.
XX
XX
PS Example 5; SEQ ID NO 557; 649pp; English.
XX
XX
CC The invention relates to a novel predictor set comprising a plurality of
CC polynucleotides and/or polypeptides whose expression pattern is
CC predictive of the response of cells to treatment with a compound that
CC modulates protein tyrosine kinase activity or members of the protein
CC tyrosine kinase pathway. The molecules of the invention demonstrate
CC cytostatic, antiangiogenic, vasotropic and vulnery activities and may
CC be useful in the field of pharmacogenomics, in particular for determining
CC drug sensitivity and in treating breast cancer, hypervascular diseases,
CC angiogenesis and scars in wound healing. The current sequence is that of
CC an antisense RNAi (interfering RNA) DNA-RNA hybrid oligonucleotide which
CC was targeted to a human protein tyrosine kinase biomarker polynucleotide
CC of the invention.
XX
XX
SQ Sequence 21 BP; 4 A; 4 C; 7 G; 2 T; 4 U; 0 Other;
Query Match 0.4%; Score 16.2; DB 1; Length 21;
Best Local Similarity 85.7%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 448 AACTACACCTGCGTGGAG 468
DB 21 AACTACACCTTCCCGTGGAG 1
RESULT 931
AAT30421/c
ID AAT30421 standard; DNA; 22 BP.
XX
XX
AC AAT30421;
XX
```

```

DT 28-JAN-1997 (first entry)
DE Compound simple sequence repeat primer (AT)6.5(GT)4.5.
XX
XX Detection; polymorphism; perfect compound simple sequence repeat;
KW adaptor directed primer; genome; genetic; fingerprinting;
KW amplified fragment length polymorphism assay; microsatellite region;
KW genetic trait marking; germplasm comparisons; compound; ss.
XX
XX Synthetic.
XX
XX WO9617082-A2.
XX
XX 06-JUN-1996.
XX
XX 21-NOV-1995; 95WO-US015150.
XX
XX 28-NOV-1994; 94US-00346456.
XX
XX (DUPO ) DU PONT DE NEMOURS & CO E I.
XX
XX Morgante M, Vogel JM;
XX
XX WPI; 1996-277795/28.
XX
XX Modified amplified fragment length polymorphism assay - for detection of
PT polymorphism esp. in micro:satellite regions.
XX
XX Disclosure; Fig 1c; 173pp; English.
XX
XX Detecting polymorphisms between 2 nucleic acid samples, esp. in
CC microsatellite regions, comprises digesting the nucleic acid to generate
CC fragments, ligating adaptor segments to their ends, amplifying them using
CC primer directed amplification and comparing the prods. to detect
CC differences. The primers used in the amplification comprise a primer
CC consisting of a perfect cpd. simple sequence repeat (SSR), and an adaptor
CC directed primer, comprising a sequence complementary to an adaptor
CC segment. The present sequence is an example of a compound SSR primer. The
CC method represents a modified amplified fragment length polymorphism
CC assay, which is partic. useful for genome fingerprinting, i.e. for
CC genetic trait marking and germplasm comparisons
XX
XX Sequence 22 BP; 6 A; 0 C; 5 G; 11 T; 0 U; 0 Other;
SQ
Query Match 0.4%; Score 16.2; DB 1; Length 22;
Best Local Similarity 85.7%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2824 ATATATACATATATATATATA 2844
DB 21 ACACACATATATATATATA 1
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

RESULT 932
AAT30422
ID AAT30422 standard; DNA; 22 BP.
XX
XX AAT30422;
AC
XX
XX 28-JAN-1997 (first entry)
DT
XX Compound simple sequence repeat primer (AT)8.5(GT)3.5.
DE
XX Detection; polymorphism; perfect compound simple sequence repeat;
KW adaptor directed primer; genome; genetic; fingerprinting;
KW amplified fragment length polymorphism assay; microsatellite region;
KW genetic trait marking; germplasm comparisons; compound; ss.
XX
XX Synthetic.
XX
XX WO9617082-A2.
XX
XX 06-JUN-1996.
XX
XX 21-NOV-1995; 95WO-US015150.
XX
XX 28-NOV-1994; 94US-00346456.
XX
XX (DUPO ) DU PONT DE NEMOURS & CO E I.
XX
XX Morgante M, Vogel JM;
XX
XX WPI; 1996-277795/28.
XX
XX Modified amplified fragment length polymorphism assay - for detection of
PT polymorphism esp. in micro:satellite regions.
XX
XX Disclosure; Fig 1c; 173pp; English.
XX
XX Detecting polymorphisms between 2 nucleic acid samples, esp. in
CC microsatellite regions, comprises digesting the nucleic acid to generate
CC fragments, ligating adaptor segments to their ends, amplifying them using
CC primer directed amplification and comparing the prods. to detect
CC differences. The primers used in the amplification comprise a primer
CC consisting of a perfect cpd. simple sequence repeat (SSR), and an adaptor
CC directed primer, comprising a sequence complementary to an adaptor
CC segment. The present sequence is an example of a compound SSR primer. The
CC method represents a modified amplified fragment length polymorphism
CC assay, which is partic. useful for genome fingerprinting, i.e. for
CC genetic trait marking and germplasm comparisons
XX
XX Sequence 22 BP; 6 A; 0 C; 5 G; 11 T; 0 U; 0 Other;
SQ
Query Match 0.4%; Score 16.2; DB 1; Length 22;
Best Local Similarity 85.7%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

```

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XX
XX 21-NOV-1995; 95WO-US015150.
XX
XX 28-NOV-1994; 94US-00346456.
XX
XX (DUPO ) DU PONT DE NEMOURS & CO E I.
XX
XX Morgante M, Vogel JM;
XX
XX WPI; 1996-277795/28.
XX
XX Modified amplified fragment length polymorphism assay - for detection of
PT polymorphism esp. in micro:satellite regions.
XX
XX Disclosure; Fig 1c; 173pp; English.
XX
XX Detecting polymorphisms between 2 nucleic acid samples, esp. in
CC microsatellite regions, comprises digesting the nucleic acid to generate
CC fragments, ligating adaptor segments to their ends, amplifying them using
CC primer directed amplification and comparing the prods. to detect
CC differences. The primers used in the amplification comprise a primer
CC consisting of a perfect cpd. simple sequence repeat (SSR), and an adaptor
CC directed primer, comprising a sequence complementary to an adaptor
CC segment. The present sequence is an example of a compound SSR primer. The
CC method represents a modified amplified fragment length polymorphism
CC assay, which is partic. useful for genome fingerprinting, i.e. for
CC genetic trait marking and germplasm comparisons
XX
XX Sequence 22 BP; 8 A; 0 C; 3 G; 11 T; 0 U; 0 Other;
SQ
Query Match 0.4%; Score 16.2; DB 1; Length 22;
Best Local Similarity 85.7%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2823 TATATATACATATATATATAT 2843
DB 1 TATATATATATATATATGTGT 21
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

RESULT 933
AAT30422/C
ID AAT30422 standard; DNA; 22 BP.
XX
XX AAT30422;
AC
XX
XX 28-JAN-1997 (first entry)
DT
XX Compound simple sequence repeat primer (AT)8.5(GT)3.5.
DE
XX Detection; polymorphism; perfect compound simple sequence repeat;
KW adaptor directed primer; genome; genetic; fingerprinting;
KW amplified fragment length polymorphism assay; microsatellite region;
KW genetic trait marking; germplasm comparisons; compound; ss.
XX
XX Synthetic.
XX
XX WO9617082-A2.
XX
XX 06-JUN-1996.
XX
XX 21-NOV-1995; 95WO-US015150.
XX
XX 28-NOV-1994; 94US-00346456.
XX
XX (DUPO ) DU PONT DE NEMOURS & CO E I.
XX
XX Morgante M, Vogel JM;
XX
XX WPI; 1996-277795/28.
XX
XX Modified amplified fragment length polymorphism assay - for detection of
PT polymorphism esp. in micro:satellite regions.
XX
XX Disclosure; Fig 1c; 173pp; English.
XX
XX Detecting polymorphisms between 2 nucleic acid samples, esp. in
CC microsatellite regions, comprises digesting the nucleic acid to generate
CC fragments, ligating adaptor segments to their ends, amplifying them using
CC primer directed amplification and comparing the prods. to detect
CC differences. The primers used in the amplification comprise a primer
CC consisting of a perfect cpd. simple sequence repeat (SSR), and an adaptor
CC directed primer, comprising a sequence complementary to an adaptor
CC segment. The present sequence is an example of a compound SSR primer. The
CC method represents a modified amplified fragment length polymorphism
CC assay, which is partic. useful for genome fingerprinting, i.e. for
CC genetic trait marking and germplasm comparisons
XX
XX Sequence 22 BP; 8 A; 0 C; 3 G; 11 T; 0 U; 0 Other;
SQ
Query Match 0.4%; Score 16.2; DB 1; Length 22;
Best Local Similarity 85.7%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

```

PS Disclosure; Fig 1c; 173pp; English.

XX Detecting polymorphisms between 2 nucleic acid samples, esp. in

CC microsatellite regions, comprises digesting the nucleic acid to generate

CC fragments, ligating adaptor segments to their ends, amplifying them using

CC primer directed amplification and comparing the prods. to detect

CC differences. The primers used in the amplification comprise a primer

CC consisting of a perfect cpd. simple sequence repeat (SSR), and an adaptor

CC directed primer, comprising a sequence complementary to an adaptor

CC segment. The present sequence is an example of a compound SSR primer. The

CC method represents a modified amplified fragment length polymorphism

CC assay, which is partic. useful for genome fingerprinting, i.e. for

CC genetic trait marking and germplasm comparisons

XX

SQ Sequence 22 BP; 8 A; 0 C; 3 G; 11 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.2; DB 1; Length 22;

Best Local Similarity 85.7%; Pred. No. 1.3e+03;

Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2824 ATATATACATATATATATATA 2844

Db 21 ACACATATATATATATATATA 1

RESULT 934

AAAT30407/c

ID AAT30407 standard; DNA; 22 BP.

XX

AC AAT30407;

DT 28-JAN-1997 (first entry)

XX

DE Compound simple sequence repeat primer (AT) 6.5 (GT) 4.5.

XX

KW Detection; polymorphism; perfect compound simple sequence repeat;

KW adaptor directed primer; genome; genetic; fingerprinting;

KW amplified fragment length polymorphism assay; microsatellite region;

KW genetic trait marking; germplasm comparisons; compound; ss.

XX

OS Synthetic.

XX

PN WO9617082-A2.

XX

PD 06-JUN-1996.

XX

PF 21-NOV-1995; 95WO-US015150.

XX

PR 28-NOV-1994; 94US-00346456.

XX

PA (DUPO) DU PONT DE NEMOURS & CO E I.

XX

PI Morgante M, Vogel JM;

XX

DR WPI; 1996-277795/28.

XX

PT Modified amplified fragment length polymorphism assay - for detection of

PT polymorphism esp. in micro:satellite regions.

XX

PS Example 2; Page 84; 173pp; English.

XX

CC Detecting polymorphisms between 2 nucleic acid samples, esp. in

CC microsatellite regions, comprises digesting the nucleic acid to generate

CC fragments, ligating adaptor segments to their ends, amplifying them using

CC primer directed amplification and comparing the prods. to detect

CC differences. The primers used in the amplification comprise a primer

CC consisting of a perfect cpd. simple sequence repeat (SSR), and an adaptor

CC directed primer, comprising a sequence complementary to an adaptor

CC segment. The present sequence is an example of a compound SSR primer. The

CC method represents a modified amplified fragment length polymorphism

CC assay, which is partic. useful for genome fingerprinting, i.e. for

CC genetic trait marking and germplasm comparisons

XX

SQ Sequence 22 BP; 8 A; 0 C; 3 G; 11 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.2; DB 1; Length 22;

Best Local Similarity 85.7%; Pred. No. 1.3e+03;

Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2824 ATATATACATATATATATATA 2844

Db 21 ACACATATATATATATATATA 1

RESULT 935

AAZ90067/c

ID AAZ90067 standard; DNA; 22 BP.

XX

AC AAZ90067;

DT 09-MAY-2000 (first entry)

XX

DE Oligonucleotide #1 used in gag-pol expression cassette construction.

XX

KW Gag; pol; retroviral vector construct; gag/pol expression cassette;

KW anticancer; antiviral; immunomodulatory; cytotoxin; prodrug activator;

KW replacement gene; antisense sequence; ribozyme; tumour prevention;

KW viral infection; genetic disorder; ss.

XX

OS Synthetic.

XX

PN US6013517-A.

XX

PD 11-JAN-2000.

XX

PF 05-MAY-1997; 97US-00850961.

XX

PR 09-MAY-1994; 94US-00240030.

PR 09-MAY-1995; 95US-00437465.

PR 06-MAY-1996; 96US-00643411.

PR 26-SEP-1996; 96US-00721327.

XX

PA (CHIR) CHIRON CORP.

XX

PI Depolo NJ, Chada S, Sauter S, Bodner M, Driver DA, Respass JG;

XX

DR WPI; 2000-159877/14.

XX

PT New retroviral construct, used to produce retroviral particles for gene

PT therapy, containing a gag/pol sequence that includes at least two stop

PT codons, incapable of producing replicable virus by recombination.

XX

PS Example 3; Col 24; 63pp; English.

XX

CC This sequence represents an oligonucleotide used in the construction of

CC gag-pol expression cassettes. The invention relates to a retroviral

CC vector construct which consists of a 5'-long terminal repeat (5'-LTR); a

CC RNA binding site; an origin of second strand DNA synthesis; a 3'-LTR and

CC gag/pol sequences modified to contain two or more stop codons. The

CC invention also relates to a gag/pol expression cassette, and an env

CC expression cassette. The retroviral construct has anticancer, antiviral

CC and immunomodulatory activity. The retroviral constructs are used to

CC produce recombinant retroviral particles for use in gene transfer,

CC particularly gene therapy, e.g. to deliver heterologous sequences that

CC encode cytotoxins, prodrug activators, replacement genes, antisense

CC sequences or ribozymes, immune accessory molecules and viral immunogens,

CC particularly for treatment or prevention of tumours, viral infections and

CC genetic disorders

XX

SQ Sequence 22 BP; 9 A; 3 C; 2 G; 8 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.2; DB 1; Length 22;

Best Local Similarity 85.7%; Pred. No. 1.3e+03;

Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2819 ATGGTATATATATATATATAT 2839


```

Db      21 ATGCTATCGATATATATATAT 1
      1||||| ||| |||||
RESULT 936
AAH91679/c
ID AAH91679 standard; DNA; 22 BP.
XX
XX AAH91679;
AC
XX 09-OCT-2001 (first entry)
DT
XX
DE Human inflammatory bowel disease associated polymorphic site #754.
XX
XX Human; inflammatory bowel disease; Crohn's disease; ulcerative colitis;
KW single nucleotide polymorphism; SNP; chromosome 19p13; paternity test;
KW chromosome 5q31-33; forensic test; gene therapy; ds.
XX
XX Homo sapiens.
OS
XX
FH Key Location/Qualifiers
FT misc_feature 8
FT /*tag= a
FT /note= "SNP, optionally T or A at this position"
XX
XX WO200142511-A2.
PN
XX 14-JUN-2001.
XX
XX 11-DEC-2000; 2000WO-US033632.
XX
XX 10-DEC-1999; 99US-0170257P.
XX 10-APR-2000; 2000US-0196046P.
XX
XX (WHED ) WHITEHEAD INST BIOMEDICAL RES.
XX (ELLI-) ELLIPSIS BIOTHERAPEUTICS CORP.
XX
XX Daly M, Hudson TV, Lander ES, Rioux J, Siminovitch K;
PI WPI; 2001-367874/38.
XX
XX Testing for the presence of polymorphisms associated with inflammatory
PT bowel disease, using a hybridization assay.
XX
XX Claim 1; Page 71; 463pp; English.
XX
XX The present invention describes a method for detecting the presence of
CC polymorphisms associated with inflammatory bowel diseases such as
CC ulcerative colitis and Crohn's disease. The methods can be used to detect
CC the presence of genetic polymorphisms associated with inflammatory bowel
CC disease and correlating their occurrence with disease states. They may be
CC used in this way for phenotypic correlations, forensics, paternity
CC testing, medicine and genetic analysis. The present sequence is a
CC polymorphic site described in the exemplification of the invention
XX
XX Sequence 22 BP; 11 A; 3 C; 0 G; 7 T; 0 U; 1 Other;
SQ
Query Match 0.4%; Score 16.2; DB 1; Length 22;
Best Local Similarity 81.8%; Pred. NO. 1.3e+03;
Matches 18; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 3469 TATCTATATATATAATTATTG 3490
Db 22 TATATATATATANGTTGTTG 1
      ||| ||||| ||| |||
RESULT 937
ABK33880/c
ID ABK33880 standard; DNA; 22 BP.
XX
XX ABK33880;
AC
XX 08-MAY-2002 (first entry)
DT

Gag/pol expression cassette construction primer #1.
MoMLV; Moloney murine leukaemia virus; mouse; retroviral backbone; LTR;
gag/pol expression cassette; gag; pol; env; integrase; gene therapy; ss;
tumour; cancer; viral infection; immune response; autoimmune response;
graft rejection; cytostatic; antiviral; immunostimulant; PCR; primer;
immunosuppressive; murine leukaemia virus 4070A amphotropic envelope;
bovine growth hormone polyadenylation sequence; long terminal repeat.
Mus sp.
Synthetic.
US6333195-B1.
25-DEC-2001.
07-JAN-2000; 2000US-00479776.
09-MAY-1994; 94US-00240030.
09-MAY-1995; 95US-00437465.
06-MAY-1996; 96US-00643411.
26-SEP-1996; 96US-00721327.
05-MAY-1997; 97US-00850961.
(CHIR ) CHIRON CORP.
Respass JG, Depolo NJ, Chada S, Sauter S, Bodner M, Driver DA;
WPI; 2002-163181/21.
New gag/pol expression cassette, for preparing retroviral particles for
gene therapy, comprises a promoter, a gag/pol gene, and a polyadenylation
sequence, and cannot form a replication competent virus by homologous
recombination.
Example 3; Col 24; 63pp; English.
The invention relates to a gag/pol expression cassette comprising a
promoter, a gag/pol gene (I) and a polyadenylation sequence in which the
5' end of (I) has been modified to contain codons that are degenerate for
gag, or the 3' end of (I) has been deleted without affecting the
biological activity of the encoded integrase. The expression cassette and
similar cassettes that express env protein, are used to produce
recombinant retroviral particles by homologous recombination. These
particles are gene transfer vectors, particularly for gene therapy of
tumours or viral infections, also to induce an immune response, to treat
or prevent diseases, or to suppress graft rejection or immune/autoimmune
responses. This sequence represents an oligonucleotide primer used in
construction of gag/pol expression cassettes of the invention
SQ
Sequence 22 BP; 9 A; 3 C; 2 G; 8 T; 0 U; 0 Other;
Query Match 0.4%; Score 16.2; DB 1; Length 22;
Best Local Similarity 85.7%; Pred. NO. 1.3e+03;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2819 ATGGTATATATACATATATAT 2839
Db 21 ATGGTATCGATATATATATAT 1
      ||||| ||| |||||
RESULT 938
ADH69177/c
ID ADH69177 standard; DNA; 22 BP.
XX
XX ADH69177;
AC
XX 25-MAR-2004 (first entry)
DT
XX
XX PLOD2 PCR primer #15.
DE
XX
XX human; collagenous matrix; hydroxyallysine cross-link;
KW

```

KW allysine cross-link; proteolytic degradation; fibrosis;
 KW tissue engineering; Bruck syndrome; ss; PCR; primer.
 XX
 OS Homo sapiens.
 XX
 XX US2003219852-A1.
 XX
 XX 27-NOV-2003.
 XX
 XX 28-JUN-2002; 2002US-00184372.
 XX
 XX 29-NOV-1999; 99US-00450209.
 XX
 XX (NEDE) NEDERLANDSE ORG TOEGEPAST.
 XX
 XX Bank RA, Van Der Slot AJ, Zuurmond A, Te Koppele JM;
 XX WPI; 2004-080749/08.
 XX
 XX Obtaining a collagenous matrix with modified resistance against
 XX proteolytic degradation, for treating a fibrotic condition, comprises
 XX controlling the ratio of hydroxyallysine to allysine cross-links.
 XX
 XX Example 3; Page 12; 25pp; English.
 XX
 XX The invention relates to a method of obtaining a collagenous matrix which
 XX comprises cross-linked collagen molecules, where the resistance of the
 XX collagenous matrix against proteolytic degradation is controlled by
 XX controlling the ratio of hydroxyallysine cross-links to allysine cross-
 XX links in the collagenous matrix. The method is useful for obtaining a
 XX collagenous matrix comprising cross-linked collagen molecules, where the
 XX resistance of the collagenous matrix to proteolytic degradation, is
 XX modulated. The method is useful for treating a fibrotic condition in a
 XX mammal by administering to the mammal (preferably human) an effective
 XX amount of a compound or composition which reduces the lysyl hydroxylation
 XX level of collagen telopeptides and thereby results in a collagenous
 XX matrix having a decreased ratio of hydroxyallysine cross-links to
 XX allysine cross-links. The method comprises administration of compound or
 XX composition that inhibits the activity or production of TGF encoded by a
 XX PLOD2 gene but not the activity or production of lysyl oxidase. The
 XX method is useful for treating fibrosis by inhibiting fibrotic processes,
 XX in tissue engineering or drug delivery. The method provides collagen
 XX cross-linked by hydroxyallysine cross-links which are more difficult to
 XX degrade than collagen cross-linked by allysine. The present sequence
 XX represents a PLOD2 PCR primer.
 XX
 XX Sequence 22 BP; 10 A; 9 C; 2 G; 1 T; 0 U; 0 Other;
 XX

Query Match 0.4%; Score 16.2; DB 1; Length 22;
 Best Local Similarity 85.7%; Pred. No. 1.3e+03;
 Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 QY 2325 GTGTGTGTCGCGTGTGTGTG 2345
 ||||| ||||| ||||| |||||
 DB 21 GTGTGTGTGTGTGTGTGTG 1

RESULT 939
 ADL57201
 ID ADL57201 standard; DNA; 22 BP.
 XX
 XX AC ADL57201;
 XX
 XX 03-JUN-2004 (first entry)
 XX
 XX Human NOV1 forward real time quantitative PCR primer SEQ ID NO:146.
 XX
 XX ss; PCR; primer; real time quantitative PCR; human; antidiabetic;
 XX anorectic; cardiac; hypotensive; antiarteriosclerotic; anorectic;
 KW virucide; antibacterial; fungicide; protozoacide; nootropic;
 KW neuroprotective; antiparkinsonian; anticonvulsant; osteopathic;
 KW antiarthritic; antiinflammatory; dermatological; antiasthmatic;
 KW antilipaemic; gene therapy; fibroblast growth factor receptor 4; FGFR4;

KW complement factor I precursor; matrix metalloproteinase-15 precursor;
 KW MDC3; T-lymphocyte surface antigen Ly-9 precursor;
 KW fibroblast growth factor-21; FGF-21;
 KW alpha-2 macroglobulin-like polypeptide variant;
 KW antileukoproteinase 1 precursor; LIV-1; nuclear hormone receptor NOR-1;
 KW transmembrane protein-like; beta-neoendorphin-dynorphin precursor.
 XX
 XX Homo sapiens.
 OS
 XX WO2004022723-A2.
 PN
 XX 18-MAR-2004.
 PD
 XX 09-SEP-2003; 2003WO-US028141.
 PF
 XX 09-SEP-2002; 2002US-0409145P.
 PR
 XX 10-SEP-2002; 2002US-0409544P.
 PR
 XX 12-SEP-2002; 2002US-0410320P.
 PR
 XX 16-SEP-2002; 2002US-0411060P.
 PR
 XX 23-SEP-2002; 2002US-0412766P.
 PR
 XX 23-SEP-2002; 2002US-0412825P.
 PR
 XX 24-SEP-2002; 2002US-0412767P.
 PR
 XX 25-SEP-2002; 2002US-0413342P.
 PR
 XX 30-SEP-2002; 2002US-0414832P.
 XX
 XX (CURA-) CURAGEN CORP.
 PA
 XX Zhong M, Guo X, Anderson DW, Ort T, Padigaru M, Rieger DK;
 PI WPI; 2004-315567/29.
 XX
 XX New isolated NOVX polypeptides and polynucleotides, useful for
 XX preventing, diagnosing or treating NOVX-associated disorders, e.g.
 PT osteoarthritis, obesity, atherosclerosis, cancer, Parkinson's disease,
 PT asthma, or infections.
 PT
 XX Example 12; SEQ ID NO 146; 214pp; English.
 PS
 XX The invention relates to a novel isolated polypeptide (NOVX) comprising a
 XX mature form of any of the 37 amino acid sequences fully defined in the
 XX specification. A polypeptide of the invention has antidiabetic,
 CC anorectic, cardiac, hypotensive, antiarteriosclerotic, anorectic,
 CC virucide, antibacterial, fungicide, protozoacide, nootropic,
 CC neuroprotective, antiparkinsonian, anticonvulsant, osteopathic, and
 CC antiarthritic, antiinflammatory, dermatological, antiasthmatic, and
 CC antilipaemic activity. A polynucleotide of the invention may have a use
 CC in gene therapy. The polypeptides, nucleic acid molecules and antibodies
 CC are useful in the manufacture of a medicament for treating a syndrome
 CC associated with a human disease, preferably a NOVX-associated disorder.
 CC The nucleic acid molecules, polypeptides and antibodies are useful for
 CC treating, preventing or diagnosing diseases such as metabolic disorders,
 CC diabetes, obesity, infectious diseases (viral, bacterial, fungal,
 CC helminthic, and protozoal), anorexia, cancer, cardiovascular diseases
 CC (hypertension, atherosclerosis), neurodegenerative disorders, Alzheimer's
 CC disease, Parkinson's disease, epilepsy, immune disorders
 CC (osteoarthritis), haematopoietic disorders, inflammatory skin disorders,
 CC asthma, and various dyslipidaemias. The nucleic acids and polypeptides
 CC may also be used as targets for the identification of small molecules
 CC that modulate or inhibit e.g. neurogenesis, cell differentiation, cell
 CC proliferation, haematopoiesis, wound healing and angiogenesis, in gene
 CC therapy, in generation of antibodies that bind immunospecifically to NOVX
 CC substances for use in therapeutic or diagnostic methods. The nucleic
 CC acids are further used as hybridisation probes, in chromosome mapping,
 CC tissue typing, preventive medicine, and pharmacogenomics. The NOVX
 CC polypeptides of the invention show homology to certain known human
 CC proteins: NOV1a-1t show homology to fibroblast growth factor receptor 4
 CC (FGFR4); NOV2a shows homology to complement factor I precursor; NOV3a
 CC shows homology to matrix metalloproteinase-15 precursor; NOV4a shows
 CC homology to MDC3; NOV5a-5c show homology to T-lymphocyte surface antigen
 CC Ly-9 precursor; NOV6a-6m show homology to fibroblast growth factor-21
 CC (FGF-21); NOV7a-7c show homology to alpha-2 macroglobulin-like
 CC polypeptide variant; NOV8a-8g show homology to antileukoproteinase 1
 CC precursor; NOV9a-9i show homology to LIV-1 protein; NOV10a shows homology

CC to nuclear hormone receptor NOR-1; NOV12a-11j show homology to
 CC transmembrane protein-like; NOV12a-12c show homology to beta-neoendorphin
 CC -dynorphin precursor. The present sequence represents a PCR primer used
 CC in the exemplification of the invention.

SQ Sequence 22 BP; 9 A; 6 C; 4 G; 3 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.2; DB 1; Length 22;
 Best Local Similarity 85.7%; Pred. No. 1.3e+03;
 Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1293 CGTGAAGATGCTCAAGACCA 1313
 ||| ||||| ||||| ||||| |||||
 Db 1 CGTCAAGATGCTCAAGACAA 21

RESULT 940

ADQ75599
 ID ADQ75599 standard; DNA; 22 BP.

XX AC ADQ75599;

DT 09-SEP-2004 (first entry)

DE Clock gene intron PCR primer, SEQ ID 7.

XX KW Clock gene; DNA fingerprint; PCR; primer; ss.

XX OS Unidentified.

XX PN KR2003075818-A.

XX PD 26-SEP-2003.

XX PF 21-MAR-2002; 2002KR-00015277..

XX PR 21-MAR-2002; 2002KR-00015277.

XX PA (KOOC-) KOREA OCEAN RES & DEV INST.

XX PI Kim WS, Lee YH;

XX DR WPI; 2004-105148/11.

XX PT Identification of organism using the intron DNA sequence of the clock
 gene as DNA fingerprints.

XX PS Claim 3; SEQ ID NO 7; 19pp; Korean.

XX The present invention relates to a method for identifying an organism
 CC using the intron sequence of the clock gene as DNA fingerprints. The
 CC method comprises the steps of: constructing a pair of primers for PCR
 CC capable of amplifying intron using consecutive nucleotide sequences
 CC before and after of the clock gene intron; amplifying intron by PCR using
 CC the pair of primers; sequencing the amplified intron DNA fragments; and
 CC identifying the organism to analyse the nucleotide sequence of the
 CC intron. The present sequence is a PCR primer used in the method of the
 CC invention.

XX SQ Sequence 22 BP; 4 A; 8 C; 4 G; 6 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.2; DB 1; Length 22;
 Best Local Similarity 85.7%; Pred. No. 1.3e+03;
 Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 992 TGGGCTCCCCCAGGTGACA 1012
 ||||| ||||| ||||| ||||| |||||
 Db 2 TGGGCTCCTCCACTGTACACA 22

RESULT 941

ADP74809
 ID ADP74809 standard; DNA; 22 BP.

XX ADP74809;
 XX 23-SEP-2004 (first entry)
 DT Trypanosoma brucei TSIF PCR primer.

XX Trypanosoma brucei; trypanosome suppressive immunomodulating factor;
 KW TSIF; immunomodulating activity; Trypanozoon infection;
 KW immunosuppressive; gene therapy; immune response; autoimmune disorder;
 KW PCR; primer; ss.

XX Trypanosoma brucei.
 OS Synthetic.

XX PN WO2004056853-A2.

XX PD 08-JUL-2004.

XX PF 19-DEC-2003; 2003WO-EP051082.

XX PR 23-DEC-2002; 2002EP-00080667.

XX PA (VIBV-) VIB VZW.

XX PI De Baetselier P, Beschlin A;

XX DR WPI; 2004-500278/47.

XX PT New polypeptide derived from Trypanosomes, useful in preparing a
 PT medicament for suppressing the immune response in a mammal for treating
 PT autoimmune disorders.

XX PS Example; Page 28; 54pp; English.

XX The present invention describes a Trypanosoma brucei trypanosome
 CC suppressive immunomodulating factor (TSIF) protein. The present invention
 CC also describes: (1) the TSIF protein having the primary structural
 CC information of amino acids 1-553 of the 833-amino acid sequence of SEQ ID
 CC NO:2 (ADP74801) or its fragment or allelic variant having
 CC immunomodulating activity; (2) an isolated polynucleotide comprising a
 CC 2826 base pair sequence of SEQ ID NO:1 (ADP74800) which encodes the TSIF
 CC polypeptide; (3) a vector comprising the nucleic acid; (4) a genetically
 CC engineered host cell comprising the expression vector; and (5) preparing
 CC a diagnostic assay for detecting the presence of a Trypanozoon infection
 CC in a mammal. TSIF has immunosuppressive activity, and can be used in gene
 CC therapy. The TSIF polypeptide or polynucleotide can be used in preparing
 CC a medicament for suppressing the immune response in a mammal for treating
 CC autoimmune disorders. The present sequence represents a PCR primer for
 CC TSIF, which is used in an example from the present invention.

XX SQ Sequence 22 BP; 4 A; 4 C; 8 G; 6 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.2; DB 1; Length 22;
 Best Local Similarity 85.7%; Pred. No. 1.3e+03;
 Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 603 GGTGTACAGTCAGGCACGCC 623
 ||| ||||| ||||| ||||| |||||
 Db 22 GGTATACACTGAGGCACCCC 2

RESULT 942

AA34311/C
 ID AA34311 standard; DNA; 23 BP.

XX AA34311;

XX 06-JUL-1999 (first entry)

XX Human oestrogen receptor gene PCR primer #2.

XX Human; oestrogen receptor; ligand; bone resorption; metabolic disorder;

KW cardiovascular disease; cancer; central nervous system; breast; uterine;
KW osteoporosis; ovarian; prostate; diabetes; Alzheimer's disease; PCR;
XX primer; amplification; ss.
XX Synthetic.
OS Homo sapiens.
PN WO9912961-A1.
XX 18-MAR-1999.
PD 04-SEP-1998; 98WO-US018577.
PF 08-SEP-1997; 97US-0058271P.
PR 30-SEP-1997; 97US-0060520P.
PR 30-OCT-1997; 97GB-00022884.
XX 20-MAR-1998; 98GB-00006032.
XX (MERI) MERCK & CO INC.
XX Wilkinson H;
PI WPI; 1999-229222/19.
XX Estrogen receptor useful in ligand identification in medicine.
PT Example 1; Page 14; 32pp; English.
XX Primers AAX34310-X34312 were used to PCR amplify and isolated cDNA clones
CC encoding a human oestrogen receptor (AAX34309). The receptor can be used
CC to identify ligands that bind to human oestrogen receptor. The ligands
CC can be used in a method for preventing or treating an oestrogen receptor
CC mediated disease or condition, such as abnormal bone resorption, a
CC cardiovascular disease, cancer, metabolic disorders, or central nervous
CC system disorders. The ligand is especially used to treat osteoporosis,
CC breast, uterine, ovarian or prostate cancer, diabetes or Alzheimer's
CC disease
XX
XX Sequence 23 BP; 3 A; 10 C; 7 G; 3 T; 0 U; 0 Other;
Query Match 0.4%; Score 16.2; DB 1; Length 23;
Best Local Similarity 85.7%; Pred. No. 1.4e+03;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 666 GTTGGCCCGCGACGACACC 686
DB 23 GTTGGCCCTGTCGCGACACC 3
RESULT 943
AAX76596
ID AAX76596 standard; DNA; 23 BP.
XX AC AAX76596;
XX 11-AUG-1999 (first entry)
XX Human sfv library construction PCR primer SEQ ID NO:8.
XX Human; sfv library; single chain monoclonal antibody fusion reagent;
KW transcription regulation; screening; diagnosis; HIV; Hepatitis A;
KW Hepatitis B respiratory syncytial virus; Junin virus; cytomegalovirus;
KW Herpes simplex virus; rubella; Varicella-Zoster virus; hantavirus;
KW Epstein-Barr virus; measles; dengue; Ebola inter alia; cancer;
XX gene therapy; PCR primer; ss.
XX Synthetic.
OS Homo sapiens.
XX WO9928502-A1.
PN 10-JUN-1999.
XX

PF 28-NOV-1997; 97WO-US021407.
XX 28-NOV-1997; 97WO-US021407.
XX (INVI-) INVITROGEN CORP.
XX Hoeffler JP, Russell M;
PI WPI; 1999-371138/31.
XX Antibodies from libraries useful in treating viral infections and cancer.
PT Claim 23; Page 81; 132pp; English.
XX The present invention describes methods of screening a DNA construct
CC library for a single chain monoclonal antibody fusion reagent capable of
CC binding a transcriptional associated biomolecule in vivo. The antibodies
CC are useful in treating Hepatitis A and B respiratory syncytial virus,
CC HIV, Junin virus, Herpes simplex I and II, rubella, cytomegalovirus,
CC Varicella-Zoster virus, Epstein-Barr virus, measles, hantavirus, dengue,
CC Ebola inter alia and cancer. Expression vectors that encode the fusion
CC antibodies may be used in gene therapy. The methods can be used to create
CC and isolate the fusion antibodies. The monoclonal antibody fusion reagent
CC can be used to regulate transcription in vivo. AAX76591 to AAX76674
CC represent specifically claimed PCR primers used in the construction of a
CC human sfv library
XX
XX Sequence 23 BP; 3 A; 4 C; 11 G; 5 T; 0 U; 0 Other;
Query Match 0.4%; Score 16.2; DB 1; Length 23;
Best Local Similarity 85.7%; Pred. No. 1.4e+03;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 854 AGGAGGAGCTGCTGAGGCTG 874
DB 2 AGGTCAGCTGCTGAGGCTG 22
RESULT 944
AAA59845/C
ID AAA59845 standard; DNA; 23 BP.
XX AC AAA59845;
XX 13-OCT-2000 (first entry)
XX PCR primer specific for zeta-COP.
XX Human; capsid-protein; zeta-COP; PCR primer; ss.
XX Homo sapiens.
XX CN1248624-A.
XX 29-MAR-2000.
XX 22-SEP-1998; 98CN-00119744.
XX 22-SEP-1998; 98CN-00119744.
XX (XINH-) XINHANGPU FUDAN GENE ENG CO LTD SHANGHA.
XX Yu L, Tu Q, Fu Q;
XX WPI; 2000-431993/38.
XX Novel human capsid protein subunit coding sequence.
XX Example 1; Page 9; 21pp; Chinese.
XX This invention relates to a human gene encoding a capsid protein zeta
CC subunit (zeta-COP). The invention also relates to a zeta-COP protein
CC sequence. The present sequence represents a PCR primer used to amplify